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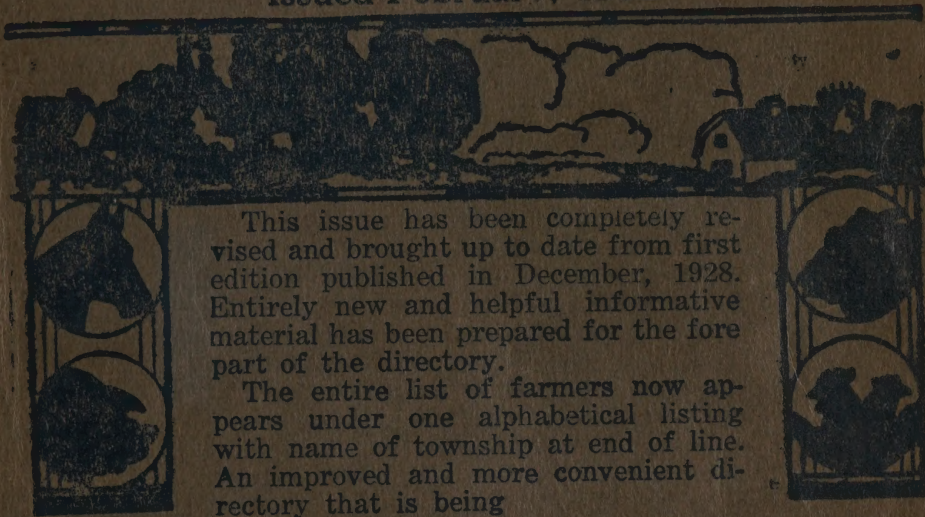
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TOPEKA, KANS.

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## **Jefferson County (Kas.) Farm Directory**

Issued February, 1932



This issue has been completely revised and brought up to date from first edition published in December, 1928. Entirely new and helpful informative material has been prepared for the fore part of the directory.

The entire list of farmers now appears under one alphabetical listing with name of township at end of line. An improved and more convenient directory that is being

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# Jefferson County Farm Bureau

Independent Publishing Bldg.

Oskaloosa, Kansas

PHONES: OFFICE 140; RES. 54

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## OFFICE STAFF

O. B. Glover, County Agricultural Agent.  
Margaret M. Luce, Office Secretary.

## THE SECOND EDITION

The publishers take pleasure in presenting the second edition of the Jefferson County Farm Directory. Three years ago the first edition was published and met with much favor from farmers and people of Jefferson county.

This revised edition contains a great deal of informative and educational matter relative to farming, crop growing and stock and poultry raising. These articles are timely, up-to-date and valuable. Turn to next page for an index of contents.

The list of farmers have been thoroughly revised. Many changes have taken place and with these changes recorded in this edition, the directory is in excellent shape for use and reference for the coming two years when another edition will be due.

Credit is due the Jefferson County Farm Bureau for its help in the work, to the assessors of the county for their information, and to the advertisers for their support. Through this excellent cooperation the book is made possible for free distribution to all farm homes in Jefferson county.

**Midwest Directory Publishing Company**

115 WEST 5TH ST.

TOPEKA, KANSAS



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### SOME OF THE BEST CONTENTS IN THIS ISSUE ARE THE ADVERTISEMENTS

As important as any other part of the directory is the numerous advertisements to be found herein. The advertisements tell where you can buy the needs of the farm and home from reliable dealers where your dollar purchases one hundred cents value.



## WHAT IS THE FARM BUREAU?

The Farm Bureau is an organization of farm people grouped together to accomplish collectively what cannot be done individually.

The Farm Bureau is a cooperative association. It has for its object the well-being of agriculture economically, educationally and socially. Its membership is composed of those directly or indirectly connected with farms and farming who have paid their Farm Bureau membership fees in support of Farm Bureau service.

Its purpose is to assist in making the farm business more profitable, the farm home more comfortable and attractive and the community a better place in which to live. Besides cooperating with the agricultural, educational and other agencies of the county, state and nation, it also provides an organization of farmers through which they may render for themselves many lines of Farm Bureau service, including legislation, taxation, transportation, good roads, group insurance, auditing, relationship between public utilities and farmers, aid to cooperative marketing and purchasing groups, and many other lines of service to the members.

It brings to the federal department of agriculture and the agricultural college the farmer's viewpoint and likewise serves as an agency through which the services of these and other great public institutions can be made readily available to the people. It serves to develop and popularize the best known practices in agriculture and home economics.

The Farm Bureau is a non-partisan, non-secret organization, representing the whole farm population, men, women and children. As the organization has developed, the need and importance of the more active participation of women as well as men in every phase, Farm Bureau work has grown.

The Farm Bureau is for the purpose of bringing to the entire rural population, in the freest possible manner, all of the latest information from public sources, as well as affording an organized channel through which farmers may attempt other service projects of their own.

In structure the Farm Bureau is built upon a federation of local, county and state Farm Bureaus, all federated under the American Farm Bureau Federation. In many respects the Farm Bureau may be likened to the Chamber of Commerce, except that it serves agriculture primarily—having its roots in the country—whereas the Chamber of Commerce serves primarily the interests of commerce with its operating centers in the towns and cities.

The Farm Bureau is the largest general farm organization in the country. It elects its own officers and shapes its own policies.

The earliest of the 1800 County Farm Bureaus were set up as far back as 1911. Many new community and township farm bureaus are added each year until there are now over 13,000 throughout the land.

The growth of the Farm Bureau has been a steady and substantial one. The American Farm Bureau Federation has reached the point where it is heeded as the recognized voice and leader of organized agriculture in America.

### THE WAY TO MAKE YOUR ORGANIZATION BIGGER AND STRONGER Creed for Boosters

1. Attend as many meetings as possible.
2. Be on time at meetings and stay until meetings close.
3. Don't allow the weather to keep you away from meetings.
4. When attending meetings, remember that a little praise does more to encourage the officers and members than criticism.
5. Do not hesitate to accept offices offered, be a booster and not a knocker.
6. Do not get angry if not selected for a committee, but continue to attend and boost.
7. When the chair asks your opinion, be frank, give it conscientiously and friendly, avoid creating dissension among members.
8. Always be ready to roll up your sleeves and help the organization.
9. Pay your dues and answer all letters or summons promptly.
10. Always work for new members.

ARE YOU FOLLOWING THE ABOVE CREED TO BUILD UP YOUR ORGANIZATION?



## THESE ARE THE FIVE THINGS THAT YOU WANT

---

### 1. Efficient Production

Larger yields per acre or animal unit—low cost of production—aid to Agricultural Extension Service and educational agencies—better quality of products—control of crop pests and animal disease—dependable farm labor—good seed—Purebred sires—adapted crop varieties—best breeds of livestock—soil fertility—rotation and fertilizers—soil management—weed control—farm management—farm machinery—farm buildings—better country roads—reasonable tax burdens—fire, auto and property insurance—production financing—lower interest rates—amortized farm loans.

### 2. Better Merchandising Methods

Cooperative marketing—standard grades, packs and packages—established brands—advertised products—cooperative purchasing—accurate accounting—bonding—better business methods—marketing credits—warehousing and storage—co-operative marketing laws—a knowledge of markets—safe investments.

### 3. Higher Living Standards

The farm family—home building—high ideals—good citizenship—education—the health of the family—sanitation—proper food and clothing—life insurance—a household budget—recreation, library, music, radio, art.

Household convenience—necessary household labor—adequate housing—ventilation—good water in the home—modern heating—electricity in the home—less drudgery—beauty in home and surroundings—social opportunity.

### 4. A Well-Rounded Community

A church—good schools—an active community Farm Bureau—boy's and girls club work—pride in your community—attractive country life—community sports—picnics—camps—festivals—chautauquas—contest—local fairs—rural mail delivery—rural telephone—good movies—community hall—wholesome surroundings—community welfare—group action—team work—community spirit—an informed community—civic responsibility—farmers willing to give time and money for their own organization.

### 5. An Equal Opportunity

Agricultural representation in government—legislation affecting agriculture—farmer minded members on public boards and commissions—agricultural consideration in the tariff.

An American Farm Bureau Federation to speak nationally for organized agriculture.

**THE FARM BUREAU IS HELPING YOU GET THESE. ARE YOU A MEMBER?**

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## JEFFERSON COUNTY FARM BUREAU

The Jefferson County Farm Bureau is an educational service organization for the farm men, women and young people of Jefferson county. The Farm Bureau strives to keep rural people constantly informed on new developments that take place in agriculture and to secure the adoption of better and more efficient farm practices.

### The Purpose of the Farm Bureau is to Secure

1. Efficient Production—Low production costs are essential for success on any farm. These are secured by maintaining soil fertility, by crop rotation, preventing soil washing by terraces, use of good tested seed, the best cultural methods and control of diseases and crop insects. With livestock, low production costs are dependent upon use of good stock and purebred sires, feeding of balanced rations, practice of proper sanitary measures, control of diseases and parasites and proper housing.

2. Cooperation of individuals and organizations for the mutual benefit of all concerned.

3. A better community life. 4-H club activities of the Farm Bureau are designed to give boys and girls training along lines that will develop more interest in their work in the home and on the farm. Leadership is stressed and much effort is placed on training boys and girls along this line.

### Organization

The Jefferson County Farm Bureau is organized under the state laws governing Farm Bureaus. Members of each township elect one of their number to be a township vice president. Ten of these township vice presidents are selected by the vice-presidents themselves and compose the executive board of the organization. The executive board is the governing body of the Farm Bureau and hires the agents and assistants, controls the finances, and decides, with the help of the agent, upon the program of work to be followed.

### Finances

The Jefferson County Farm Bureau is financed through four sources—

- (1) Membership dues
- (2) County Appropriation
- (3) State Funds
- (4) U. S. Department of Agriculture funds.

The county levy to the Farm Bureau in Jefferson County is .009 mills, giving a 90c tax on each \$10,000 valuation. On an average only 90c out of every \$200.00 taxes goes to the Farm Bureau.

### Membership

The men's membership fee is \$5.00 per year. The membership fee is \$1.00 per year for each member in the Women's Farm Bureau Units. The women have 9 units with 124 members for 1931.

There is no membership fee for boys and girls in the 4-H clubs. There are 6 bonafide 4-H clubs in the county with a membership of 118 for 1931.

### The County Agent

The county agent is employed by the Farm Bureau in cooperation with the Kansas State College and the U. S. Department of Agriculture. This makes the Farm Bureau office a local office of the above institutions as well as of the Farm Bureau. All men employed as county agents must be graduates of an agricultural college and must have had actual experience on the farm.

### Agricultural Extension Work

The county agent is the local representative of the Kansas State College and U. S. Department of Agriculture. The agricultural extension service has become a firmly established institution in Kansas and other states in this nation because it has rendered useful service desired and appreciated by farmers. It is the only public service maintained directly to farmers.

### Is Voluntary

People should distinguish between agricultural extension education and education within the four walls of a school. The class room of the county agent is the entire county. The farm men and women who participate in the work do so because they want to. It is voluntary. There is no forced attendance as in the ordinary classroom. The work appeals to the cooperators in dollars and cents value or some other equivalent, otherwise they are not interested. As a general rule people profit according to the interest they take in agricultural extension activities.

### How Carried On

Extension work is best accomplished through what is termed the demonstration method. The county agent establishes a demonstration of improved practices with farmers willing to cooperate. Generally these demonstrations are arranged at the request of the farmer cooperator. Occasionally it is necessary for the county agent to choose cooperators and request that demonstrations be undertaken to demonstrate some particular improved practice which is not in general use in the county.

### Not a "Trouble Shooter"

The first county agents were what some commercial organizations call "trouble shooters." If a hen had the roup, a bean plant died, a hog got sick, or a tree needed spraying, the county agent was called on to render personal service. County agents in Kansas no longer vaccinate hogs, cull individual flocks of chickens, or personally spray trees for insect control. Rather, when something of this nature arises, he may either suggest a way to meet the situation or arrange a demonstration. If a demonstration is arranged the owner agrees to call in a group of neighbors and there the county agent will put on a demonstration in the best known methods of doing that particular piece of work in hand. This is the difference between rendering personal service from farm to farm, and of carrying on demonstration work which he is really employed to do. By the personal service method he would reach one farmer. By the demonstration method the number he would reach would be limited only by the number who desired to attend the demonstration meeting. It might be five or it might be one hundred. The County agent spends about one third of his time in the office and the other two thirds over the county or in the field.

## 4-H CLUB WORK

**AIM:** Boys and girls 4-H club work is a publicly supported and directed education enterprise of the U. S. Department of Agriculture, state agricultural colleges and county governments cooperating. It is designed to teach through doing and is so organized as to teach better practices in agriculture and home economics, and the finer things of rural life, while at the same time developing wholesome, industrious, public spirited boys and girls.

**MEMBERSHIP** in 4-H clubs is voluntary. One of the essentials of membership is that each boy and girl taking up the work shall learn and demonstrate some better practice in agriculture or home economics under the guidance of a competent leader, keep a record of this work, make a public exhibit, and report on it to the county extension agent.

Members of the 4-H clubs are associated in groups of 5 to 50 or more. These clubs are conducted in accordance with parliamentary practices. The club program usually flows from and centers about the work each boy or girl is doing at his or her home. The program is enriched by demonstrations, exhibits, songs, games, yells, music, and social activities. Tours about the county to study livestock, farm crops, home improvement, and the like are often made a part of the club activities.

In summer, county, district, state and sometimes regional camps of about a weeks duration are held. Usually once a year from 250 to 2500 outstanding representatives of the clubs are brought to their state agricultural college for a week's instruction and inspiration. At these camps, matters that make for character, appreciation of nature, pride in rural life and accomplishments are emphasized.



## PROGRAM OF WORK FOR 1932

### MAJOR PROJECTS

#### CROPS AND SOILS—

- County-wide Lime and Legume Tour.
- Contact entire county with circular letter.
- 48 weekly news stories. Hold 3 community schools. Select 10 crop leaders.

#### POULTRY—

- 20 accredited flocks.
- 3 dealers mixing K. S. C. mash.
- 2 poultry schools.
- 15 culling demonstrations.
- 5 old houses remodeled.

#### HORTICULTURE—

- One banding and scraping demonstration.
- Establish County Committee on Grades and Packing.
- Secure 150 acres of Vetch for 1932.
- Establish One 5-year Fertility Plot.
- 1 new terraced orchard.
- Continue long time pruning demonstration.

#### PLANT PATHOLOGY—

- 3 Potato demonstrational plots.
- Arrange for 2 growers to use fertilizer.
- Harvest plots and select show samples.
- Assist with Kansas Potato Show.

#### AGRICULTURAL ENGINEERING—

- One Terracing school with 10 old cooperators and 10 new ones. Locate 3 alfalfa fields for terraces.
- 500 personal contacts on Land Reclamation.
- 1932 leaders assist at least one neighbor.

### MINOR PROJECTS

#### 4-H CLUBS—

- Enroll 130 members.
- 75% completion.
- Reach one new community.
- Hold County-wide Picnic.
- Develop two demonstration teams.
- Develop six new leaders.

#### BEEF CATTLE—

- 1 County Beef School.
- 2 Demonstrations on Beef Herd Management.
- 1 County-wide Summary Meeting.

#### PORK PRODUCTION AND SWINE SANITATION—

- 1 County Meat Cutting Demonstration.
- 2 Demonstrations on Pork Production.
- 1 meeting on sheep or hogs.
- Stress parasite control.
- Reports.

#### HOME DECORATIONS—

- Present 9 clubs continued and organize one new one.
- Secure 140 members.
- Quarterly schools.
- Achievement Day.
- Reports.

#### PUBLICITY—

- Keep agricultural news with human interest of the Farm Bureau in all county papers as it occurs.

## SOIL IMPROVEMENT PROGRAM

Realizing that the fundamental things that insure the successful operation of any farm in Jefferson county is the fertility of the soil, the Farm Bureau has placed a lot of emphasis on soil improvement. The soil improvement work has been carried on by legume demonstrations throughout the county. Green manure demonstrations, application of different kinds of fertilizer material on the various crops, pasture fertility demonstrations and crop rotations.

The following are some of the results obtained in this work during the past three years:

### FERILITY TESTS ON ALFALFA

George VanGaasbeek, Oskaloosa, Kansas

Plot Treatment	Comparative Yield
No Treatment .....	.3 tons per acre
Phosphorus alone .....	.42 tons per acre
Lime Alone .....	.5 tons per acre
Manure Alone .....	.74 tons per acre
Manure and Lime .....	.74 tons per acre
Phosphorus and Lime .....	.9 tons per acre

Yield taken on May 25, 1929.

Same Field Harvested in 1930 and Results. Harvested May 26th

No Treatment .....	.43 tons per acre
Phosphorus Alone .....	.8 tons per acre
Lime Alone .....	1.12 tons per acre
Manure Alone .....	1.16 tons per acre
Manure and Lime .....	1.23 tons per acre
Phosphorus and Lime .....	1.30 tons per acre

Harry Swickard, Meriden, Kansas

No Treatment .....	0 tons per acre
Phosphorus Alone .....	0 tons per acre
Phosphorus and Ammonia Sulphate .....	0 tons per acre
Manure Alone .....	.75 tons per acre
Lime Alone .....	.90 tons per acre
Manure and Lime .....	.92 tons per acre
Phosphorus, Lime and Ammonia Sulphate .....	1.2 tons per acre
Phosphorus and Lime .....	1.37 tons per acre

Yield taken May 26, 1930.

Roy Johnston, Oskaloosa, Kansas

Plot Treatment	Comparative Yield
No treatments .....	210 pounds per acre
Phosphate Alone .....	568 pounds per acre
Ammonia Sulphate and Phosphate .....	640 pounds per acre
Lime Alone .....	1,000 pounds per acre
Manure Alone .....	1,920 pounds per acre
Lime, Phosphate and Ammonia Sulphate .....	2,078 pounds per acre
Manure and Lime .....	2,346 pounds per acre

Yield taken May 23, 1931.

### ALFALFA VARIETY TEST

C. G. Long, Oskaloosa, Kansas

Variety	Yield Per Acre
Grimm .....	3,040 pounds
Kansas Common (Northwest) .....	2,826 pounds
Utah Common .....	2,346 pounds
Kansas Common (Southwest) .....	2,026 pounds
Arizona .....	1,063 pounds

Harvested May 24, 1931.



# JEFFERSON COUNTY FARM DIRECTORY

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## H. H. McBride, Rock Creek, Kansas

Variety	Yield Per Acre
Grimm	2.6 tons
Kansas Common (Northwest)	2. tons
Kansas Common (Southwest)	1.92 tons
Utah Common	1.9 tons
Arizona	1.6 tons

## OAT FERTILITY TEST

J. C. Puderbaugh, Ozawkie, Kansas—1931

Plot Treatment	Yield Per Acre
46% Phosphorus—75 lbs.	97.4 bushels
No Treatment	89.4 bushels

## WHEAT FERTILITY TEST

L. G. Cook, Oskaloosa, Kansas—1930

100 lbs. of 20% Phosphorus to acre	17.8 bushels
No Treatment	12.5 bushels

## VETCH FERTILITY TEST

J. G. Rees, Grantville, Kansas

Treatment	Lbs. Vetch per A.	Tons Vetch per A.	Lbs. Nitrogen
Check	1154	.57	35.7
Lime, 1 ton	1102	.55	34.1
Ammonia Sulphate & Lime	4134	2.06	128.1
44% Phosphorus, 75 lbs.	4134	2.06	128.1
44% Phosphorus, 75 lbs. plus 1 ton lime	4385	2.19	135.9

Harvested July, 1931.

Practically all crops have been tested out in regard to the use of fertilizer. Some very outstanding results have been obtained on potato fertility work. A complete set of plots testing out the results on mixed fertilizers on potatoes was carried on the J. B. Quinlan farm of Newman during the summer of 1931. All of these results are available at the County Farm Bureau Office.

# LEGUME PRODUCTION

**ALFALFA**—All things considered alfalfa is the most profitable crop Jefferson county can grow. No suitable substitute for it has been found in the dairy ration, it is an excellent pasture crop for all classes of live stock, is a good soil builder and therefore its production is conducive to that diversification in farming that Jefferson county so badly needs. Even marketing the hay crop will bring bigger cash returns than any other crop. Kansas Common or Grimm is the best variety of alfalfa for Jefferson county. In obtaining seed be sure it is from a field of long standing, 10 or 15 years preferred and free from noxious weed seed, or certified Grimm.

Most of the soils in this county are suitable for alfalfa and the observance of a few simple rules will insure a good stand. When soil is low in fertility or there is doubt about getting a stand of alfalfa usually results can be obtained by the addition of 1½ tons of crushed limestone and an application of phosphate on land that has been summer fallowed and planted in the fall.

## Fall Seeding

1. Select good seed of not less than 90% germination, 98% purity, free from noxious weeds and from a local field of at least ten years duration.
2. Summer fallow.
3. Prepare the seed bed early and well. Alfalfa is a small seed and must have a firm, well settled seed bed.
4. Lime the ground.
5. Inoculate the seed.
6. Apply phosphate or manure.

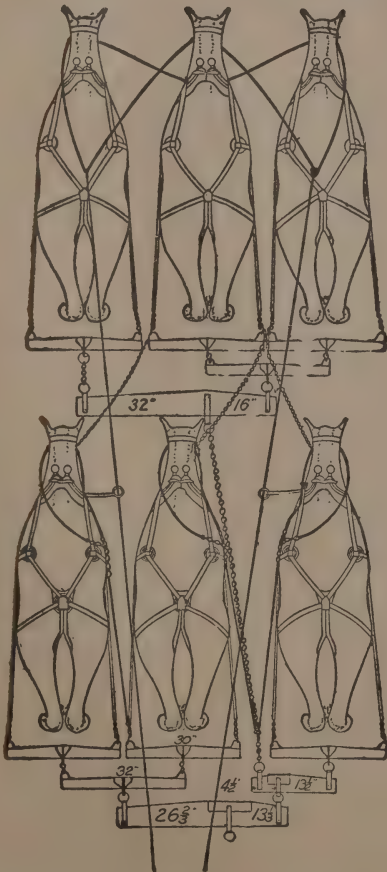
7. Seed as early after August 30th as weather conditions permit.
8. Use an alfalfa seeder. The wheat drill is too heavy and will plant too deep.
9. Do not cut after September 15th.

**SPRING SEEDING**—While as a rule spring seeding is not to be recommended because of weed growth, yet it is often necessary and a few get excellent results. It costs too much to establish alfalfa to risk spring seeding.

**SWEET CLOVER**—The general rules of alfalfa regarding seed selection, seed bed preparation, inoculation and depth of seeding. However, sweet clover, particularly when used in rotation is sowed in the spring either with oats or wheat as a nurse crop. It is even more necessary that sweet clover have a firm seed bed than for alfalfa. On most soils in Jefferson county it is very necessary that lime be applied to grow sweet clover successfully.

## TANDEM HITCH IS POPULAR

### Home-made 6-Horse Plow Hitch



The tandem hitch is finding favor among farmers by helping solve their labor problems, since one man can drive from five to twelve horses without waste of power. And in addition to the saving in man power each horse is required to pull its exact part of the load when the tandem hitch is used.

Experiments with hitches have proven that there is a "true center of draft" on plows. This means that less power is required to pull the plow when the team is hitched directly forward of that point than when it is hitched further away from, or nearer to the furrow. For this reason it is impossible to hitch 4, 5, or 6 horses abreast on a gang plow and have the center of the evener directly forward of the true center of draft unless part of the horses walk on plowed ground. If it is attempted to make a hitch that will keep all horses except the furrow horse on solid ground, the point of hitch comes far to the left of the center of draft and causes side-draft. Such a hitch requires 20 per cent more power to overcome the side-draft created and it also causes crowding, trampling, and overheating of the team.

Although the tandem hitch was originated to solve the problem of side-draft in gang plows, it has been found to be practical for cultivating purposes as well. Some farmers by adding more horses to the plow, obtain enough power to pull a harrow behind the plow and do two operations at the same time.

hind the plow and do two operations



## TERRACING

### TERRACES SAVE FIELDS FROM EROSION

At the present time there are 1800 acres of cultivated land in Jefferson county protected by terraces. These terraces place one-third more moisture in the subsoil and this is of great advantage in seasons of limited rainfall.

The loss of soil fertility due to erosion or soil washing has been one of the chief reasons for run down lands in all parts of the world. Experiments have shown that the losses from this source may often exceed the losses from cropping. If the most permanent and prosperous system of agriculture is to be maintained in Kansas, care must be taken to prevent undue losses of our soil fertility through erosion and avoid a mistake which has almost ruined many older agricultural regions.

It is a common observation that many of the farms of Kansas have already lost much of their fertility due to soil erosion. The loss of soil by erosion is serious in Kansas because a large proportion of the rainfall comes in dashing rains. The runoff is often relatively high when compared with the total rainfall. Serious erosion is usually the result. Some outstanding terracing projects will be found on the following farms:

Roy Fritts, Meriden; B. F. Abmeyer, Grantville; Walter Hefty, Valley Falls; Ralph May, Winchester; M. G. Nichols, McLouth; Emil Eisler, Nortonville; Frank Haines, Oskaloosa; Ralph Puderbaugh, Ozawkie; Charles Bradford, Perry and E. C. Quigley, Williamstown.

There are many others but this gives the location of a demonstration that you can visit in your part of the county.



This is a view of a properly constructed terrace on the Roy Fritz farm, near Meriden. This field was planted to corn and planted parallel to the terrace or according to the recommended practice. Note the corn growing in the terrace.

### WHAT TERRACES DO

1. Terraces prevent the formation of gullies.
2. Reduce the amount of sheet erosion from the entire surface of the field.
3. Conserve water on rolling lands by causing a greater absorption of the rainfall.
4. Reduce the loss of manure, lime, or fertilizer applied to the surface soil.
5. Prevent the washing out of young plants.
6. Provide a means of cropping rolling lands without excessive losses of soil or water.
7. Reduce flood damage to highways, culverts and bottom lands.

## BEEF PRODUCTION

The Beef Production program that is being developed in Jefferson county is a program that is becoming popular with many cattlemen and farmers throughout this country. And is one that is popular throughout the blue stem region of Kansas. However, this program is being used in practically all sections of Kansas but greater results can be expected in this region because of good grass, good alfalfa, plenty of water, and because we are located in the great corn belt region.

The program calls for good type cows with good bulls, feeding the cows well during the fall and winter months, which means supplying some form of protein so that the percentage of calf crop will be high, 90% or better. The calves should be dropped early and all of them at about the same time which means a more uniform bunch of calves.

The cow that drops her calf in January or February, can, if properly fed, supply a good quantity of milk during the time she is on dry feeds. The supply of milk may drop off towards the end of the winter feeding period, but the supply of milk is again increased when the cows go to grass, and thus the milking period is prolonged 5 or 6 months from the date of calving. In August when grass begins to dry up and the milk supply begins to fall off the calves will begin to use the creeps and continue up until weaning time.

January, February and March calves can be taught to eat grain while the cows are around the feed lots and once they have been taught to eat before going to summer pasture it is not difficult to have them eat out of creeps placed in the pasture.

Creep feeding of calves means early maturing of calves and therefore early marketings of calves during the months of October, November and December when the prices for this class of stuff generally commands the best price. Creep fed calves can be weaned without the usual loss of "baby fat." This loss is usually around 20 or 25 pounds. Creep fed calves start right off to full feeding when placed in the feed lot. Calves that are creep fed usually shorten the full feeding period 80 to 100 days or in other words they have this advantage over non-creep fed calves.

The creeps are usually placed near the salt bunks, watering places or any particular loafing ground, such as shade trees that the cows use during the heat of the day.

By this type of beef production program it is hoped to establish a permanent and profitable beef industry by producing 600 pound calves at 9 months of age or to produce a 600 pound calf for each acre of cultivated land.

The following results were obtained during the summer of 1931 in cooperation with Mr. Searl Dannevik of Valley Falls:

### BEEF HERD MANAGEMENT DEMONSTRATION

(Cooperating with Jefferson County Farm Bureau and K. S. A. C.)  
Oskaloosa, December 12, 1931

#### Searl Dannevik—Demonstration

Breed—Shorthorn.

Number of Cows—10.

Calving Percentage—95.7.

Average calving date—April 12.

Average age to date—8 months.

#### Cow Herd Record

Wintering—Total cost of fodder, alfalfa hay, cotton seed cake, and mill feed, per cow.....	\$12.33
Summer—blue grass pasture .....	6.00
Interest—taxes—depreciation—bull service .....	7.25
Cost of producing calf .....	25.58

#### Calf Record

Cost of feed per calf up to Dec. 1st.....	10.46
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Total cost of calf up to Dec. 1st.....	\$36.04
Appraised Value, cwt. ....	8.00
Weight (Estimated)—600 pounds.	
Total Value of Calf .....	48.00
Profit per Calf .....	11.96

**Credit to Cow Herd**

Total value to milk sold from 10 cows.....	\$ 90.40
Total value of butter used from 10 cows .....	11.60

Total Credit .....

\$102.00

Credit per cow .....	10.20
Profit per calf .....	11.96
Credit for one cow .....	10.20

Net profit or return per cow.....

\$ 22.16

Calves were sold on December 15, 1931 and brought \$8.00 per cwt, and weight 624 lbs. The dressing percent for the 10 heads were 61.5.

## DAIRY COWS

This county is a good dairy county. However, there is a wonderful opportunity for improvement in the dairy animals in the county. The improvement in the dairy industry may be summarized in the following three words: **WEEDING, FEEDING and BREEDING.**

**Weeding:** This may be accomplished by becoming a member of the Dairy Herd Improvement Association. This is essentially keeping books on each cow. The cow tester comes to the farm each month, weighs the milk, feed, makes an individual test of each cow's milk and figures from this one day's record the cost of producing the milk and the net profit. At the end of the year you know exactly whether each cow has made you money and how she compares with the rest of the herd. The cost for a herd of thirty cows or less is \$45.00 for the year. All of this work could be done by the individual dairyman but experience shows that the average dairyman does not have the time and the records are put off from time to time due to other matters which demand the attention of the dairyman.

By having records on each cow, intelligent culling out of the unprofitable, low testing, poor producing cows may be practiced, also calves can be saved from the better cows in the herd.

**Feeding:** There are two balances essential to profitable milk production. The first, we are more or less familiar with and do not violate to any great extent. I refer to a balanced ration, the grain ration to dairy cows should be balanced in relation to the roughage which is being fed. For instance, where alfalfa is being fed less protein is needed in the grain ration than where sudan grass is the roughage. Rations for dairy cows appear later. The second balance to which I refer is violated quite generally for one reason or another, is that of feeding grain according to production. If there are two cows of the same weight and one is giving 20 pounds of milk and the other 60 pounds of milk I think we will all agree that the cow producing 60 pounds should have considerable more feed. However, I have seen so many dairymen feed a bucketful of feed to each cow regardless of her production. There isn't a herd of cows in which each cow requires the same amount of feed. In some cases the cows are receiving too much and it is being wasted, and in other cases the cow is not receiving as much feed as she should have and is either filling the pail from her body or is not producing the maximum amount of which she is capable. Feed according to production, 1 pound of grain to every 3 or 4 pounds of milk. You will get more milk on the same amount or less feed.

**Breeding:** This may be accomplished probably most economically by the purchase of purebred sires that are known to have production records behind

them. The sire in a herd of thirty cows has 30 times the influence of any individual cow on the whole herd. Considering this fact the selection of a sire should be given a great deal of thought and we are justified in investing more money in him than we would in the good cow. Save calves from only your best cows and in turn breed them to a good bull. In a comparatively short time you will be surprised in the increased production of your herd. As the production per cow increases a larger percent of the income is profit.

## KANSAS STATE FEEDING CHART

		Calves	Helpers	Fleshing previous to Freshening		Freshening Period			Producing Cows				
				Winter	Pasture	10 days before	1-2 days after	2-7 days after	Winter			Pasture	
									10	12	10	Good	Dry
Alfalfa Hay	Grain Mixture Daily	Keep before	5	10		10	5	5	10		12		
Carbonaceous Hay										10	9		
Silage		2-10	15-20	30					30	30			20
Corn		100	100	100	100				400	200	500	400	400
Oats		100	100	100	100	100	250	100	200	200	200	200	200
Bran		100	100	100	100	100	100	150	x	200	x	x	x
Cotton Seed Meal									100				100
Linseed Meal			100	100	50	100		25	*	400	100		*
Salt		4	4	4	3 3/4	3	3 3/4	2 3/4	7	10	8	6	7
Daily Rate to Feed		Choice	4 lb. to 8 lb.	8 lb. to 16 lb.	8 lb. to 16 lb.	4 lb. to 5 lb.	3 lb.	5 lb. to 6 lb.	1 lb. to 1 lb. fat per week	1 lb. to 3.5 lb. milk per day	1 lb. to 3.5 lb. milk per day	1 lb. to 5 lb. milk per day	1 lb. to 4.5 lb. milk per day
Skim Milk or Milk		1 lb. to 10 lb. live wt.											
Steam Bone Meal										2			

x Feed bran when cheaper.

\* Add linseed when price permits.

### PROFITABLE POINTERS FOR KANSAS DAIRYMEN

James W. Linn and J. C. Nisbet, Extension Dairymen, K. S. A. C.

A good preventive for milk fever is liberal feeding of molasses just previous to and just after freshening. Do not milk the cow the first 24 hours. Do not milk udder entirely dry until 36 hours after calving.

Have warm water ready for cow to drink immediately after freshening. Supply oats and bran as a warm mash. Keep cow quiet and keep all dogs away.

At birth the calf's naval should be treated with iodine and rubbed with alum until dry.

Calving quarters, cows' udders and teats must be absolutely clean. Colostrum milk will ward off digestive troubles if it arrives in stomach ahead of any dirt.

Calves should be taken from mother's the sixth milking after birth. Let them miss one meal and teach to drink from pail.

Never feed more than 1 pounds of milk per 10 pounds of live weight. per day. Feed skim milk at same rate when calf is eating grain. Take a week to change from whole to skimmilk. When calf reaches 16 pounds of milk do not increase. This is the maximum. Feed grain whole to calves. They will not eat too much grain on milk.

Do not feed leafy alfalfa hay. This may cause digestive disturbances.

**ABORTION:** Remove aborting cows from herd. Have blood tests made on all cattle. Avoid contaminated feed and litter. Remove and burn soiled litter, the calf and afterbirth. Disinfect stall and manger. Flush womb with 1 per cent common salt solution until discharge ceases. No medicine or treatment has been found which will surely prevent abortion.

**BLACKLEG:** Satisfactorily controlled by vaccination. Dead carcasses must be buried or burned. Disease germs lives in the soil.



## MAKING POULTRY PAY

### KANSAS POULTRY IMPROVEMENT ASSOCIATION

**KANSAS ACCREDITED FLOCKS.** To have a Kansas accredited flock the owner must keep a complete record on the flock beginning October 1st and closing September 30th the following year. A flock must produce at least 125 eggs per bird for the year to qualify. At the close of the season an inspector of the Kansas Poultry Improvement Association will inspect the flock. All birds are selected for standard and production qualities. Those that pass are banded. Any bird showing standard disqualifications are clipped and must be removed from the flock.

The accredited flocks are conducted as demonstration flocks during the year previous to inspection. A cooperator must be a member of the Cloud County Farm Bureau. A poultry calendar will be furnished at cost, or 50 cents. Attached to each month's calendar are cards which are completed at the close of each month and forwarded, one to the county agent, and one to the Poultry Improvement Association.

**Standard Grades.** Grades A, B and C. show the conformity of the flock as a whole to the requirement of the American Standard of Perfection.

**Grade A.** High standard quality in type, color and comb with but very little variation. Flocks from which many birds of choice exhibition quality can be selected.

**Grade B.** Good standard quality in type, color and comb from which some birds of exhibition quality can be selected. More variation between different birds than Grade A.

**Grade C.** Standard type, color and comb with more variation than in Grade B. Free of all standard disqualifications.

**KANSAS CERTIFIED FLOCKS.** To be a Kansas certified flock it must first be Kansas accredited. Following accreditation a flock may be certified by placing at the head of the flock pedigreed male birds from hens which have produced 200 eggs or more in 365 days in trapnest. The records of the hens must have been made in official egg laying contest or under Record of Performance Supervision.

The standard grades are the same as in the accredited flock: Grades A, B and C.

**KANSAS HATCHERY ACCREDITED FLOCKS.** Flocks are inspected by inspectors of the Kansas Poultry Improvement Association. All inferior males and females are eliminated from the breeding flocks supplying eggs to hatcheries.

Each bird must conform in a reasonable degree to the standard of high egg production as set forth by the Department of Poultry Husbandry of the Kansas State Agricultural College.

An official certificate of inspection will be issued to each flock owner whose birds meet the requirements for a Kansas hatchery flock. Many accredited, certified and B. W. D. tested flocks arrange to sell their eggs to Kansas accredited hatcheries.

A certificate showing that a hatchery has been inspected and the flocks supplying eggs to it have been inspected and found to meet the requirements for hatchery flocks will be issued to each accredited hatchery.

### KANSAS RECORD OF PERFORMANCE ASSOCIATION

The Kansas Record of Performance Association was organized at Manhattan, Kansas in July, 1928, for the purpose of encouraging the production of high quality breeding stock of known high egg production; to stimulate trapnesting and pedigreed breeding; to give recognition to honest trapnest records; and to create a demand for pedigreed baby chicks and breeding stock.

The trapnesting is done on the flock owner's farm. Approved trap-nests and record sheets are used. A supervisor of the association makes

frequent unannounced visits to each flock owner for the purpose of checking the accuracy of the records.

Baby chicks purchased from Record of Performance flocks furnish a source of cockerels eligible to head Kansas Certified flocks. These baby chicks must be wing banded by the R. O. P. breeder. Approved R. O. P. cockerels must be produced by the R. O. P. breeder and banded by the supervisor when the birds are six months of age or over.

Approved R. O. P. males with semi-official pedigrees from 200 eggs ancestors producing eggs weighing 23 ounces or better to the dozen, should be of value in increasing egg production and egg size in every flock. The use of such male birds mated to properly selected hens can be expected to increase the yearly production and the returns from the flock.

### THE KANSAS GROW CLEAN CHICK PROGRAM

Begin with B. W. D. tested chicks.

**CLEAN BROODER HOUSE.** Scrub with boiling water to which has been added one can of lye for each 30 gallons. Disinfect walls with a recognized efficient disinfectant.

**HAIL SCREEN and SANITARY RUNWAY.** The hail screen and sanitary runway is being widely used. Advantages are: no chance of contamination by the droppings; saves labor of cleaning; no need for litter; eliminates danger of crowding. Plans may be obtained from the county agent, or extension architect, K. S. A. C., Manhattan.

**BROODER STOVE.** Start the brooder stove two days before the chicks arrive to determine positively that the heating apparatus works correctly.

**FEEDING.** No longer is it necessary to hold chicks without feed for 72 hours. Nor is it necessary to carry a spoon and can of feed and every hour or two measure feed as if feeding a bunch of invalids.

### RATION FOR FATTENING POULTRY

A. Crate Feeding:	B. Pen or Lot Feeding:	
Corn meal	60 lbs. Cracked corn	85 lbs.
Oat meal or shorts	40 lbs. Meat scraps	15 lbs.
Buttermilk	200 lbs.	

Ration A.—Mix 2 lbs. of buttermilk with 1 lb. mash and feed twice a day in a V-shaped trough. Start the birds gradually not supplying all they will eat until the third day. Fatten 10 to 14 days.

Ration B. should be fed in hoppers four to six weeks.

### LICE TREATMENT

1. Spray roosts with Kreso dip 2 to 5 per cent or Liquor-Cresolis compound 2 to 5 per cent. One-half teacupful to a gallon of water makes a 3 per cent solution.

2. Treat birds with sodium flouride.

a. Pinch method. Hold chickens by legs and put a pinch of the powder in its feathers at several points of the body. Along the back, under the wings, and about the vent are the points which the lice most commonly frequent. A pound of powder will treat 100 birds.

b. Dip method. Can be safely used only on a bright morning of a warm day. Hold bird for a minute in a solution of one ounce of sodium flouride to a gallon of water for one minute. Duck the head under once or twice and ruffle feathers.

### MITES

Paint the tops of the roosts with Black Leaf 40 (Nicotine Sulphate). This material may be had in one ounce, one-half pound, two pound and gallon containers. Mites prey on the birds at night. The heat from the hens causes fumes to be given off that are deadly to mites.

### SCALY LEG—MANGE OF LEG

Dip feet and legs in a solution of  $\frac{1}{2}$  pint kerosene and one pint of linseed oil. Take care not to wet the feathers.



## SHEEP PRODUCTION

A small flock of sheep on the average Brown county farm should prove a small sized gold mine. The wool clip ordinarily will pay for the ewes feed and keep and we get the lamb crop free. The lamb crop will average well over 100% and if a minimum amount of time and equipment are afforded the entire crop may be saved. In selecting the breeding ewes be sure they are not "gummerns" i. e., so old they have lost their teeth, are true to type, displaying vigor and vitality. Always bear in mind that the lamb crop is where cash will be made. Here are some simple rules for profitable market lambs—

1. Use a purebred ram (Hampshire, Shropshires or Southdown preferred).
2. Have lambs dropped early.
3. Dock and castrate.
4. Feed grain to lambs.
5. Market before hot weather.

### EARLY LAMBS

It does not require more equipment and more care to produce early lambs, than to produce them in April and May. By early lambs we are thinking of February and March lambs. The market condition usually justify the producing of the early kind. Moreover early lambs may be marketed in May and June. This gets them off of the farm before hot weather, and before the damage from stomach worms develop. Records kept by the sheep department at the State Agricultural college have shown at times, no gains made on lambs during the month of August. It is quite true that if there is worm infestation, the gains on lambs during the hot months of July and August are very often negligible.

### DOCK AND CASTRATE

The operations of docking and castrating are very simple but one that is very easy to neglect.

A sharp knife or a pair of pincers is used in docking. The skin is pulled forward before the tail is cut, the loose skin falls over the wound and helps to check bleeding and encourage healing. It is always important to disinfect the instrument and the wound. Docking gives lambs a blockier appearance, makes for cleanliness, and is imperative for ewes kept in the breeding herd.

There is a new instrument on the market for unsexing a buck lamb. It is very simple, easy to operate, the results are quite satisfactory. It is an instrument used to snap the cord by pressure without cutting any skin at all. Men with large flocks of sheep may very profitably own such an instrument. For those who own small flocks, the old method is really very simple and not tiresome.

80 per cent of the culled lambs on the St. Louis market during spring and summer are buck lambs. Buck lambs get heavy in the shoulder and light in the hind quarters. Wether lambs do the opposite. The per capita consumption of lamb and mutton in the United States is 5 pounds a year, as compared to 70 or 80 pounds each of pork and beef. Nothing will contribute more to the holding back of the consumption of lamb than the placing on the market of buck lambs. On the other hand the biggest thing the producer can do to encourage the consumption of lamb is to improve the quality by castrating and feeding.

### FEED THE LAMB

A warm, clean, sunshiny place should be selected for the creep. The troughs for the grain may be 10 to 12 inches wide, 4 inches deep. A six inch board should run lengthwise of the trough, 10 inches above the bottom to prevent the lambs getting into the trough with their feet. Openings into the creep need to be 7 to 9 inches wide depending on type of ewes. Lambs will start eating more readily at two weeks of age than at two months. Clean the troughs after each feed. Feed twice each day—small amounts at first. At two months of age a lamb will eat  $\frac{1}{4}$  to  $\frac{1}{2}$  pounds of grain per day. A lamb at 70 pounds will have eaten less than one bushel of grain.

Lambs may be started on 2 parts ground corn, 2 parts ground oats and one part bran. When the lambs are six weeks old they can be changed to 6 parts shelled corn, 3 parts oats or bran and 1 part linseed oil meal (pea size best.) If lambs are getting good legume hay the grain ration may be 6 parts shelled corn and 2 parts oats.

## PORK PRODUCTION

The profits that may be derived from a small herd of hogs with a very small outlay of time and money, are often cut materially by many Marshall county farmers. This snag which lessens the profit to the producer is "Pig Penitis." Now "Pig Penitis" is a feeling on the part of so many hog feeders that where hogs have been fed before, there hogs must be fed again. There may be a hundred, two hundred, or five hundred acres of land on the farm, but there is one spot, and one alone where pigs are corralled and fed. This one little spot with its patched fences and stationary shelters, is well saturated with a lot of things. If worm eggs were as big as hen eggs, they would be knee deep in lots of this sort. Then it is in this old lot that necro bacillosis has its happy home. There it lives and prospers, multiplies and flourishes. It is here that all of the germs that make up what is commonly known as mixed infection, find a habitable soil, it is here they lurk and feed and multiply.

If we are to select the one place on the farm where the worm eggs and filth germs would be best taken care of, we would have to choose the old hog lot, steeped in manure and decorated with corn cobs, relics of many seasons.

If we are to pick the one worst spot on the farm for a pig or shoat, we would have to pick this same spot. It seems strange that for so long we have fed the pig on one little area, the only real bad place on the whole farm for him to eat. Yet, that's just what has been done. The enemies of the pig have flourished and multiplied until in many cases these are more powerful than the pigs and are causing unthriftiness, slow development and actual death losses in hundreds of hog yards.

What's the remedy?

### McLEAN SANITATION

No, there's nobody selling this medicine. It's not a magic worker. It doesn't swoop down on a bunch of unthriftly pigs and make them well. Its a system rather than a medicine. A system that once the herd has been adjusted to, has powers that startle the unbelieving.

It is really awfully nice medicine for the pig to take. It isn't half as hard on the hog owner as he feels like it is going to be. Nor is it so expensive.

The application of the system is much less expensive than is the construction of a permanent hog house. Here are the directions on the bottle:

1. Clean and disinfect the farrowing pen. Scrub it out with boiling lye water. Use a can of lye to ten gallons of boiling water. The old iron kettle comes in very nicely for this treatment, if one has a large herd of brood sows.

2. Clean the sow when she is put in farrowing quarters. The dirt and filth that may cling to the sows body, may contain disease germs and worm eggs. It is very common to find worm eggs clinging to the hair of the body of the sow. A stiff brush with a little lysol solution is all that is necessary. usually to clean the sow up. Particular care should be taken that the sow goes into farrowing quarters with a clean udder.

3. Keep the pigs in the farrowing house until they are three or four weeks old. If the house is in any way connected with contaminated ground, the pig should never put foot on that ground.

4. Move the pigs out to clean pasture. If a portable house is used for the farrowing, it will doubtless be brought up on the home premises for convenience of the attendant at the time of farrowing and while the pigs are little. When the pigs are three or four weeks of age, house, pigs, sow and all may be moved out to a clover field where the pigs will have an abundance of good forage and where they may range on ground that is absolutely clean from the standpoint of germs and parasites harmful to hogs.

Now there are several reasons why this medicine is just a little hard to take. The first argument that presents itself is that it is difficult to have water in these fields where hogs are to be pastured. The answer to this is that it is easier to haul water than it is to bury pigs. As a matter of fact men who are using this system find there is some advantage in hauling



water. They fix up a sled and mount some sort of a water container. They keep the water tank in close proximity to the wagon from which the corn is fed. This permits the pig to drink while he is eating. There appears to be a good advantage in this. In fact many good feeders in Kansas are so well sold on the idea, that they will haul water even though there is water in the field, if it is necessary to haul it to get it close to where the feeding is done.

Another argument is that it is less convenient to do the feeding. This brings up the question of just what is important to do on the farm. Is feeding hogs in a way that they will develop most rapidly important enough to take a lot of time for it, even though it does interfere with plowing corn or some other farm activity in a slight degree.

Another third argument is that it requires lots of fencing. As has been indicated, it is much easier to construct fence than it is to construct permanent hog houses. Not everyone builds hog houses. Just the same, this expense of fencing is justified.

The self-feeder lessens the time and labor of feeding materially. The feeds may be fed free choice; that is separately in different compartments in the self feeder; or they may be ground together. It was formerly stated that it did not pay to grind feed for hogs. Corn is usually the basic feed for Wheat, barley, kafir or milo when ground may satisfactorily replace corn. It is economical to grind feed for hogs. Corn is usually the basic feed for hogs. It should be supplemented with about 8 to 10 percent of tankage.

### THE WASHINGTON COUNTY RATION—A PROVEN RATION

The Washington county ration has met with very good success there.

Feed brood sow while suckling pigs a milk producing ration, and allow the pigs to run to a creep with shelled corn at two weeks of age. When pigs are 6 to 7 weeks of age, self-feed the following mixture:

70 lbs. medium ground corn  
20 lbs. shorts or ground wheat  
10 lbs. tankage.

This ration is quite satisfactory to feed the sow while suckling the litter. Feed this ration until the pigs weigh 50 pounds and then feed:

90 lbs. medium ground corn  
10 lbs. tankage

Feed until pigs weigh 125 pounds and then change ration to:

93 lbs. medium ground corn  
7 lbs. tankage.

Feed until pigs weigh 175 pounds then change ration to:

95 lbs. medium ground corn  
5 lbs. tankage.

Feed until pigs are marketed.

All four of these rations are to be well mixed and all self-feed. Plenty of clean water should always be available, and pigs given access to legume hay or pasture.

If as much as one-half gallon of skim milk per pig per day is available, use only 3 pounds of tankage or 3 percent in all four rations.

### GOOD PASTURE

Another common fault of hog feeders is failure to provide good pasture. Closely cropped blue grass pasture is depended upon to too great an extent. Experiments conducted by the College of Agriculture in which pastures were measured in terms of pounds of pork produced, alfalfa rated the highest. Red Clover and alsike came next with straight rape or rape and oats mixed ranking next. Sweet Clover ranks below these and sorghum or sudan still lower, but all of these mentioned produce more pork than blue grass.

In the very nature of the case a hog cannot consume large quantities of forage. The hog has a very small stomach. Forage for the hog merely economizes the grain ration. The limit of efficiency of forage is about 15 percent. Most feeders regard the economizing of 15 percent on the grain ration as quite worth while.

## SEED TABLE FOR FIELD CROPS

Article	Quantity Sown Per Acre Pounds	Pounds to Bu.
Alfalfa .....	12 to 15	60
Alsike Clover .....	6 to 10	60
Alsike and Timothy Mixed .....	9 to 12	
Awnless Brome Grass .....	10 to 25	14
Barley .....	75 to 125	48
Barley, for Nurse Crop .....	48 to 60	48
Blue Grass (Canadian) .....	40	14
Blue Grass (Kentucky) .....	40	14
Buck wheat .....	50	50
Cane, Broadcast .....	50 to 75	50
Cane, in Drills .....	12 to 15	50
Corn, Field .....	8 to 10	56
Corn, Sweet .....	12	45-50
Flax .....	28	56
Lawn Grass, 1 lb. for 300 Square Feet		
Mangel, Wurzel .....	4 to 6	
Meadow Fescue .....	55	22
Millet, Common or German .....	50	50
Millet, Hungarian .....	48	48
Millet, Japanese .....	10 to 15	40
Oats .....	64 to 96	32
Orchard Grass .....	20 to 25	14
Pasture Mixture .....	18 to 20	
Peas, Canadian Field, Broadcast .....	90 to 180	60
Peas, Canadian Field with Oats .....	75 to 90	60
Rape, Dwarf Essex .....	3 to 8	60
Red and Mammoth Clover .....	8 to 10	60
Red Top, Solid Feed .....	10 to 15	42
Red Top, Unhulled .....	20 to 25	14
Red or Creeping Fescue .....	35	14
Rutabaga .....	2 to 3	
Rye .....	84	56
Rye Grass .....	20 to 25	14
Sorghum or Amber Cane, Broadcast .....	50 to 75	50
Soy Beans, Broadcast .....	75 to 100	60
Soy Beans in Drills with Corn .....	15 to 20	60
Speltz .....	65 to 80	40
Sudan Grass, Broadcast .....	15 to 20	40
Sudan Grass, in Drills .....	7 to 10	40
Sunflower .....	7 to 10	24
Sweet Clover .....	12 to 15	60
Timothy .....	8 to 10	45
Turnip .....	2 to 3	
Vetch .....	40 to 50	60
Wheat .....	70 to 100	60
White Clover .....	8	60

## KEEP TANKS FREE FROM SCUM

One of the best methods of keeping the green scum from gathering in water tanks is to use a very small amount of copper sulphate or blue vitrol. The copper kills the organism, which is a small plant-like growth called algae. The amount of copper in the water should not be large enough to poison livestock.

One-half ounce of copper-sulphate (bluestone) for each 60 gallons of water hung in a small cloth bag near the tank inlet will prevent the formation of green scum and keep the water clearer during the warm weather when the work horses appreciate, and deserve a good drink.



## THE VALUE OF A SILO

The silo gives from 25 to 30 per cent more feeding value to the corn crop than when it is fed as dry fodder.

The silo provides the best and cheapest form of succulent winter feed, which helps to keep the cows healthy and productive when dairy prices are highest.

The silo is the cheapest farm building one can erect. It will house more feed nutrients per cubic foot of space than any other farm building.

It increases the live stock carrying capacity of the farm at least 25 per cent, and the producing capacity of the farm at least 10 per cent.

The silo prevents waste of cornstalks, leaves and husks which contain about 40 per cent of the feeding value of the corn plant.

The silo enables the farmer to feed his stock from less acres thereby leaving more crops to be marketed and more profit to himself.

Good silage properly fed does not injure in the slightest the quality of the milk, butter or cheese.

It requires less labor to feed silage, and the cattle waste very little of it.

The tall silo of small diameter is to be preferred to the one of less height and greater diameter.

The following is the amount of silage usually fed to different kinds of livestock:

### APPROXIMATE CAPACITY OF CYLINDRICAL SILOS

(In Tons of Corn Silage)

#### A—When Filling is completed

Inside diameter in feet	Depth of Silage in feet											
	18	20	22	24	26	28	30	32	34	36	38	40
10 .....	20	23	26	30	33	37	41	.....	.....	.....	.....	.....
12 .....	28	33	38	42	48	53	58	64	70	.....	.....	.....
14 .....	38	45	51	58	65	72	80	87	95	103	111	120
16 .....	50	58	67	76	85	94	104	114	124	135	145	156
18 .....	64	74	84	96	107	119	132	144	157	171	184	198
20 .....	78	91	104	118	132	147	162	178	194	211	227	244
22 .....	95	110	126	143	160	178	196	215	235	255	275	296

#### B—After Silage has settled One month or more

Inside diameter in feet	Depth of Silage in feet											
	8	10	12	14	16	18	20	22	24	26	28	30
10 .....	11	14	17	20	23	26	29	33	36	39	43	46
12 .....	16	20	24	29	33	38	42	47	52	56	61	66
14 .....	21	27	33	39	45	51	58	64	70	77	83	90
16 .....	28	35	43	51	59	67	75	84	92	100	109	118
18 .....	35	44	54	64	75	85	95	106	116	127	138	148
20 .....	43	55	67	80	92	105	118	130	144	157	170	184

A—If corn is unusually dry when ensiled, deduct 10% from the capacity given. If corn is dry and very little grain is present, deduct 15%. If silo is filled rapidly and no time is allowed for settling, deduct 10%.

B—For corn ensiled when less mature than usual, add 10% to 15% to the capacity given. If corn is unusually rich in grain, add 5 to 10%. If corn is unusually dry when ensiled, deduct 10 to 15%. If very little grain is present, deduct 10%.

#### Number of Gallons in Square Tanks

To find number of gallons in any square or oblong tank, compute cubic feet by multiplying length by width by depth and multiply by 7.4805, which will give number of gallons.

## RAT CONTROL

There are many and various ways of killing rats and frequently, if complete elimination is to be secured, nearly every method must be used.

Various kinds of traps will catch part of them, but rats easily become trap wary and are not so easily caught.

Poisoning is frequently resorted to and there are two poisons recommended by the United States Department of Agriculture.

**BARIUM CARBONATE.** One is known as barium carbonate, which is a heavy white mineral salt, mildly poisonous, tasteless, odorless, slow in action, and inexpensive, all of which things add to its value as a rat poison. Being tasteless and odorless rats do not know when they are eating it with bait. Slow in action allows the rats to get outside searching for water to cool the inside burn, and being mildly poisonous means only that more must be used, and the result is to use  $\frac{3}{4}$  bait and  $\frac{1}{4}$  poison. It is inexpensive so that the quantity used is not so much to be considered. It is, of course poisonous to all animals and must be handled as poison.

**RED SQUILL.** The other poison known as red squill is a perennial bulb that grows wild along the coast of the Mediterranean Sea. It is dried and ground and the result is poison to only rats and mice. It is relatively harmless to human beings and domestic animals. This is due partly to its sharp taste which is objectionable to most animals and further to the fact that it will act as an emetic causing the poison to be thrown up. Rats usually take it readily and do not vomit so it serves very nicely as a rat poison.

Many persons complain that rats will not take the bait they put out. It may be that the wrong kind of bait is used. The thing to do is to put out at least three different kinds of bait. One should be ground meat, another grated fruit or vegetables, and another a cereal. If bread is used, it should be moistened. After learning what kind of bait the rats like it is easy enough to poison the right kind.

Ordinarily the poison is placed in small sacks or small squares of paper which are then twisted like sacks and distributed in places the rats frequent. As long as the bait is finely divided, rats cannot drag it around as they could with a piece of meat or a hard piece of bread. Baits not used should be collected each morning as rats seldom care to accept old baits, and the poison is then kept away from other animals.

**CALCIUM CYANIDE.** Coming into more frequent use is a powder known as calcium cyanide, which when used with a dust gun, turns into a gas upon being exposed to the moisture in the air, and is very fatal to rats. Care should be taken that sufficient gas is used which means that the space in which the dust is pumped must be confined such as under concrete, tight wooden floors, or holes in the ground. If any gas has escaped it can readily be detected by its white color and the openings closed. After forcing in a sufficient quantity of the dust which immediately turns to gas, the pump is taken away, the opening closed, and the rats will be entirely destroyed unless they have some way of getting out quickly or are dead down in burrows.

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## MOLE CONTROL IN LAWNS, GARDENS AND FIELDS

Considerable interest is evident in the control of moles in lawns, gardens and in fields. Moles are insectivorous animals, choosing earthworms, white grubs and the larvae of insects for their food. The belief is prevalent however that moles subsist on corn and other planted seed but from general studies of the animals and by stomach examinations it has been determined that only a very small amount of vegetable food is consumed. Moles cause the greatest direct damage by uprooting the soil, thus damaging plant roots and aerating the soil. The burrows thus made are useful by mice and other mammals and it is probable that corn and other seed is consumed by them in traversing the mole runways.

The use of repellants and traps are the most effective control methods. In small infested areas, common lye inserted in mole runways has given excellent results in driving the pests from an area although other repellent substances, notably flake naphthalene or moth balls and paradichlorobenzene are also effective for short periods of time.

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## MAKING HOME GROUNDS ATTRACTIVE

The farm home with its immediate surroundings is the greatest asset that the farm family possesses. Nothing in after life so holds the affection of the children to their old homestead as the trees, shrubs and flowers, many of which they helped to plant and cultivate. Pride should urge every farm family to make the picture which their home presents to the passing public a charming one. The farm home offers possibilities in the way of attractive surroundings and yet the great majority of farm dwellers have not taken advantage of this situation. Probably the outstanding reason for this apparent neglect is the supposed cost of beautifying the farm home grounds. Native shrubbery, vines and flowers near at hand offer unlimited possibilities in landscaping the farm home grounds at little cost.

There are certain definite things that need to be done that that a farm home will present the most attractive appearance, and the county home demonstration agent will assist farm women in this work free of charge. The yard must be kept in order, free of machinery, livestock, poultry, and bee hives.

The yard should be well graded, seeded and kept mowed with the lawn unbroken by clumps of shrubbery or flowers, flower beds, concrete or other ornaments. The house and outbuildings should be kept in good repair and well painted, all the same color, with simple harmonious trimmings.

There must be sufficient shade by long lived trees planted in irregular groups or as single specimens, never in rows. Fences and gates should be kept in good repair and well painted. There should be permanent foundations, corner and border mass plantings of shrubs and flowers with an occasional tree to vary the sky line.

The clothesline, grindstone and other such necessary equipment should be in the back yard and be wholly or partly screened from the side and front for privacy. All unsightly objects should be well screened and all good views well framed by plantings. Walks and drives should be constructed only where needed and should be simple and direct in design and constructed of smooth permanent material.

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## SELECTING SEED CORN IMPORTANT

Seed corn should be carefully selected from corn of good type and adapted to the locality. It must then be stored properly so that it will remain good. Seed cared for in the proper manner will send forth good strong plants which are essential for good corn yields. It is often said by corn growers of renown that the time they spend in selecting and storing seed corn is the most profitable of all the time devoted to the corn crop.

The time to select seed corn depends upon what is to be accomplished by the selection. In attempting to fix type and raise the quality, field selection should be practiced. Selection by this method is made when about half the ears have dry husks. If the purpose is simply to obtain seed that will germinate well and no attempt is to be made to fix the characters of the variety, then selection at gathering time may be done. Only when corn has matured well before frost, however, is this latter method safe.

In field selection the strength and character of stalk, height of ear, and size of shank should be considered. The standard ear is nearly cylindrical in shape, with slight taper toward the tip. The butt and tip should be well covered with grains of nearly the same quality and shape as the remainder of the ear. Ears with wide spacing or too little spacing are not desirable. The ideal kernel is slightly wedge-shaped. The thickness of kernels should be about half the width. Select ears with grains of medium depth and medium indentation. The heart of the kernel should be smooth, bright and free from blisters. All diseased ears should be discarded.

The same day that the seed corn is gathered it should be placed in hangers or racks to dry, placed where there is a good circulation of the air. After the seed has dried it must be stored in a dry place, away from the mice and rats, but in a ventilated place.

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## FARM MANAGEMENT CONCENTRATES

The following farm management "concentrates" are included here in order to emphasize the most important principles and practices in the organization and operation of general farms. They are based on the study of a large number of actual farms, and recognized by the majority of successful farmers. They apply to farms in general and not to exceptional cases. They must necessarily be brief and cover only the most general conclusions.

1. Pioneer farming was a job, not a business. Modern farming is a business with large investments on which fair profits must be made if the business is to be satisfactory.

2. Some small farms succeed in spite of being too small, but not many.

3. It is worse to waste good managing ability than to waste land, labor, or the use of equipment.

4. Tenants and their landlords are partners, and the lease the partnership contract. No form of lease is wholly satisfactory unless the farming is profitable and the returns are fairly divided.

5. Most successful farms are diversified, i. e., they grow several standard crops, and most of them produce two or more kinds of livestock.

6. A good crop rotation is necessary to economically maintain soil fertility. It is no less necessary to insure the most economical use of man and horse labor and to provide the best feed for livestock.

7. Live stock production helps to provide profitable employment for unproductive times.

8. Animals are glad to furnish the labor for harvesting crops, and when properly managed will pay for the privilege.

9. A considerable proportion of all farm feed is not of the best market grade, but most of it can be made into the best grades of beef, pork, milk, mutton and wool.

10. Beef and mutton production are best adapted to converting roughage and waste feed into meat with the minimum use of labor and building equipment.

11. Pork production is best adapted to converting grains and mill feeds (together with some green forage) into meat, with little labor and small building investments.

12. Dairy production requires both grain and roughage, and much more labor and building equipment than do meat and wool production, i. e., dairying is much more largely a means of marketing labor and less a means of marketing crops.

13. Most poultry farms fail, but many general farms would fail without poultry.

14. Most farmers should raise at least enough colts to replace the horses worn out, but few can afford to carry more horses than are needed to do the farm work.

15. Purebred animals with intelligent management and care will return more on the money invested although costing more than grades.

16. "A good sire is half the herd, a bad one is more than half."

17. There is little use in producing crops efficiently if they are to be fed to inefficient live stock.

18. Time lost during rush period often results from poor planning when there "is nothing to do."

19. Slack periods and rainy days are the time to overhaul machinery and tools and do the "hundred" odd jobs than cannot be done most any time.

20. Every important type of farming was at some time, no doubt, fairly well adapted to existing conditions, but so were the crade and the ox-cart.

21. Balancing the farm business is just as important as balancing rations and soils. Each department of the business should add something to the total profit, either directly or indirectly.

22. The greatest increases in farm profits are made by improving production at its weakest points and not at its strongest. Repair the machine where it has broken down or is badly worn for best results in operation. "Don't stop to polish the whistle when you need new gears."



# Jefferson County Farm Directory

In reading this directory, keep in mind that name and initials come first, followed by rural free delivery number and post office address, distance and direction of farm from post office address, telephone number, whether owner or renter as designated by an O or an R. Name of township is given at end of line.

Distance and direction is from post office address unless otherwise given. Where telephone number is given the number is from the same exchange as the post office address unless stated otherwise.

## A

- Abbott, Chas., R3 Ozawkie—1S—R—Fairview.  
 Abbott, Elmer, R5 Valley Falls—5½S-1½E—R—Ozawkie.  
 Abbott, D. R., R5 Valley Falls—5½S-1½E—O—Ozawkie.  
 Abbot, L. F., R3 Ozawkie—7S-1E—O—Kentucky.  
 Abbuehl, Arthur, R1 Valley Falls—4½N-1W—Phone 1302—R—Delaware.  
 Abbuehl, Elic, R1 Valley Falls—4½N-1W—O—Delaware.  
 Abbuehl, Walter, R1 Valley Falls—3½N-1W—Phone 1303—O—Delaware.  
 Abel, B., R4 Oskaloosa—2S-1E-4S-¼E—O—Rural.  
 Abel, John, R1 Perry—2E-¾N—Phone 7413—R—Kentucky.  
 Abel, Paul, R1 Perry—¼N-1W-2N-½E-¼N—R—Rural.  
 Abel, Roy, R1 Perry—1½N-½E—Phone 4811—R—Kentucky.  
 Abmeyer, B. F., R1 Grantville—2½N-¾W—Phone 54F13—O—Kaw.  
 Ackley, John, R2 Nortonville—1W—Phone 2652—O—Norton.  
 Aikins, Alva, R1 Valley Falls—5N-1½E—O—Delaware.  
 Akins, Evirall, R3 Ozawkie—1½W-5½S—O—Fairview.  
 Ala, George, R2 Oskaloosa—1N—R—Oskaloosa.  
 Alderman, F. V., R1 Arrington—2W-4S—R—Delaware.  
 Alexander, Ben, R1 McLouth—Phone Oskaloosa 2602—Oskaloosa.  
 Alexander, Irene, R3 Oskaloosa—2N—O—Oskaloosa.  
 Alexander, Robt., Boyle—1W—O—Jefferson.  
 Alfrey, Mannie, R2 Perry—3E-1S of Grantville—Phone Grantville 37F11—R—Kaw.  
 Allaway, B. L., R2 Nortonville—1½S-3E—Phone 1252—O—Norton.  
 Allen, A. A., R1 Williamstown—3¼N-¾E—O—Rural.  
 Allen, Luther, R1 Williamstown—4¾N—O—Rural.  
 Allen, S. V., Meriden—S. City Limits—Phone 67—O—Rock Creek.  
 Allen, Sam, R1 Williamstown—4¾N-¾E—O—Rural.  
 Allund, Sam, R2 Perry—3W-1½N—R—Kentucky.  
 Anderson, Oscar, R4 Oskaloosa—5S-1E—R—Oskaloosa.  
 Angel, Andrew, R1 Oskaloosa—3½S-2E—R—Oskaloosa.  
 Armstead, Claude, R2 Ozawkie—3W-3¼N—O—Rock Creek.  
 Armstead, Geo. T., R2 Valley Falls—4½S-2W—Phone 2103—O—Rock Creek.  
 Armstrong, T. J., Rock Creek—1¼S—Phone 2303—O—Rock Creek.  
 Arno, James, R1 Grantville—½N-2½E—Phone 48F4—O—Kaw.  
 Arthur, Paul, R2 Ozawkie—1N-1½E—O—Ozawkie.  
 Ashworth, Finnis, R3 McLouth—1E-1N—R—Union.  
 Aull, C. H., R2 McLouth—3S-1W—Phone 6430—O—Sarcoxie.

## B

- Babb, I., R1 Williamstown—2¼N-1E—O—Rural.  
 Baer, E. M., R1 McLouth—½W—O—Union.  
 Baker, Chas. M., R1 Perry—2¼E—Phone 5621—O—Rural.  
 Baker, Guy, R3 Ozawkie—3½S-½W—Phone 774—R—(Jerseys)—Fairview.  
 Baker, Irl, R3 Ozawkie—1½W-2E—Phone 362—O—Fairview.  
 Baker, J. D., R3 Ozawkie—5S—Phone 544—O—Fairview.



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Baker, L. C., R2 Winchester—3E-1S—Phone 1313—O—Jefferson.  
Baker, Mike, R1 Meriden—3N-½E of Grantville—Phone Grantville 36F4—  
O—Kaw.  
Baker, Ralph, R1 Williamstown—In town—Phone Perry 4622—O—Rural.  
Baker, Russel, R3 Ozawkie—6S—R—Fairview.  
Baker, W. H., R1 Williamstown—¼N-¼W—Phone Perry 5622—R—Rural.  
Ballagh, J. W., R1 Oskaloosa—5S-2W—Phone 3504—O—Oskaloosa.  
Ballinger, Vic, R1 McLouth—4N-½W—R—Union.  
Barnard, E. E., R1 Boyle—2N-½E—Phone Winchester 581—O—Jefferson.  
Barnard, Elmer T., R1 Boyle—2N—Phone Winchester 1187—O—Jefferson.  
Barnard, Fred W., R1 Boyle—1E-1N—R—Jefferson.  
Barnard, Ira F., R3 Oskaloosa—2N-½W—O—Oskaloosa.  
Barnes, C. B., R2 Oskaloosa—5W-3N—O—Ozawkie.  
Barnes, Jeff, R3 Lawrence—8N-1E—Phone 757N2—O—Sarcoxie.  
Barnett, J. M., R1 Denison—2E—Phone 5F84—O—Delaware.  
Barrett, A. C., R1 Meriden—3½N-1½E of Grantville—O—Kaw.  
Barrett, S., R1 Meriden—2E-1S—R—Rock Creek.  
Barry, Mrs. David, R1 Meriden—2½S-1¾E—Phone 1320—O—Rock Creek.  
Barry, Harvey, R1 Meriden—2S-4½E—Phone 3913—R—Fairview.  
Bartlett, F. H., Oskaloosa—½N—O—Oskaloosa.  
Basham, J. W., R2 Ozawkie—1E-½N—O—Ozawkie.  
Bateman, Mary, R2 Valley Falls—4½S-3½W—Phone 3421—R—Rock  
Creek.  
Bateman, Roy, R1 Oskaloosa—6S-1½W—Phone 2704—R—Oskaloosa.  
Bates, Carl, R2 Nortonville—2S-2E—Phone 1785—O—Nortonville.  
Bates, Elmer, R1 Perry—¾S-¾W—Phone 5521—O—Rural.  
Bates, John, R2 Ozawkie—2½N-1½E—O—Ozawkie.  
Bates, Mrs. L. J., R2 Nortonville—2S-2E—Phone 1776—O—Norton.  
Bates, S. E., R2 Oskaloosa—5½W-3½N—O—Ozawkie.  
Bates, W. H., R2 Oskaloosa—5W-4N—Phone Ozawkie 522—O—Ozawkie.  
Baumgart, Henry, R1 Denison—3½E-2½S—Phone Valley Falls 6503—R—  
Delaware.  
Baumgart, L. F., Denison—3½E-1½S—Phone Valley Falls 6504—O—Dela-  
ware.  
Baumgart, Wm. R., R1 Denison—3E-1½S—Phone Valley Falls 6511—O—  
Delaware.  
Baxter, F. M., R1 Williamstown—¼N-2E—Phone Perry 6821—O—Rural.  
Beall, S. J., R1 Grantville—1½N-3E—Phone 21F11—O—Kaw.  
Beals, T. M., R1 Oskaloosa—5S-2E—Phone Perry 5231—O—Kentucky.  
Beasore, D. M., Sr., R1 Winchester—2½N-¼W—Phone 963—O—Jefferson.  
Beasore, Ira G., R1 Winchester—2N-¼W—Phone 935—O—Jefferson.  
Beck, C. C., R1 McLouth—1½W—O—Union.  
Becker, Mrs. Dewey, R1 Meriden—1S-1E—O—Rock Creek.  
Becker, Elmer, R1 Meriden—1½S-½W—Phone 2420—R—Rock Creek.  
Becker, Leo, R1 Meriden—3E-1S—Phone 3421—R—Rock Creek.  
Becker, T. A., Meriden—½S-1E—Phone 2220—O—Rock Creek.  
Bedwell, Steve, R2 Winchester—4E-1½S—R—Jefferson.  
Beem, Geo., R2 Oskaloosa—2N-1W—O—Oskaloosa.  
Beem, L. W., R1 Meriden—1½S-1½E—Phone 3413—O—Rock Creek.  
Beese, Frank, R1 Potter—5½W—O—Norton.  
Bell, Alice, R1 Oskaloosa—4S-½E—O—Oskaloosa.  
Bell, Clay, R1 Ozawkie—1E-5S—Phone 793—O—Fairview.  
Bell, H. E., R1 Arrington—4S-1W—Phone Larkinburg 3F20—R—Delaware.



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- Bell, L. B., R1 Valley Falls—3½N-1E—Phone 1914—O—Delaware.  
 Bell, Sherman, R1 Perry—1½E-1S—Phone 6414—R—Kentucky.  
 Bell, Walter, R1 Perry—½E-1S—Phone 6440—O—Kentucky.  
 Bell, Walter A., R3 Oskaloosa—2E—R—Oskaloosa.  
 Bell, W. H., Jr., R1 Oskaloosa—1W—R—Oskaloosa.  
 Bell, W. H., Sr., R1 Oskaloosa—5½S-1W—Phone 3805—O—Oskaloosa.  
 Bellinger, G. W., R3 Oskaloosa—4N—Phone Winchester 97-A—O—Oskaloosa.  
 Bennett, C. T., R5 Valley Falls—4½E-3½S—Phone Oskaloosa 3903—O—Ozawkie.  
 Berg, C. H., R1 Meriden—4N-½W of Grantville—Phone 2422—O—Kaw.  
 Berg, Clarence, R1 Meriden—4N-½W of Grantville—O—Kaw.  
 Berg, J. W., R1 Meriden—¼E—Phone 41—O—Rock Creek.  
 Bergin, D. M., R1 Ozawkie—2E-5½S—Phone Perry 4714—O—Fairview.  
 Bergin, J. P., R1 Ozawkie—2E-6S—Phone Perry 4740—O—Fairview.  
 Bertels, F. P., R2 Nortonville—½S-½E—O—Norton.  
 Bertels, Frank, R2 Nortonville—1½E—O—Norton.  
 Bertels, J. H., R2 Nortonville—2½E-½S—Phone 3556—O—Norton.  
 Best, Ray, R1 Meriden—2½S-1E—R—Rock Creek.  
 Betts, Harry, R2 Perry—1½W—R—Kentucky.  
 Beurman, C. S., R1 Perry—2½N-½E—O—Kentucky.  
 Beurman, F. C., R1 Williamstown—¼N-1E—Phone Perry 6712—O—Rural.  
 Beurman, R. G., R1 Williamstown—1¾N—O—Rural.  
 Beying, E. J., R2 Winchester—3E—O—Jefferson.  
 Beying, Jake, R2 Winchester—2½E—O—Jefferson.  
 Beying, Mrs. Kate, R2 Winchester—2E—O—Jefferson.  
 Bick, Karl, R2 Valley Falls—½S-¼W—O—Delaware.  
 Bick, Noel, R1 Ozawkie—1E-3S—O—Fairview.  
 Bickell, W. M., R1 Meriden—2S-½W—R—Rock Creek.  
 Bickley, Joe, R4 Valley Falls—5½W—Phone 1812—O—Delaware.  
 Bigham, M. G., R3 Ozawkie—3½S-¼W—Phone 773—R—(Holsteins)—Fairview.  
 Bigham, J. P., R3 Ozawkie—8S—Phone Perry 5922—R—(Red Polls)—Kentucky.  
 Bilger, Newt, R1 Valley Falls—3½N—Phone 4011—O—Delaware.  
 Billeys, R. A., R2 Perry—2N-2E—Phone 6212—O—Kentucky.  
 Binney, H. F., R1 Meriden—3E-¾S—Phone 3311—O—Rock Creek.  
 Birt, J. C., R2 Meriden—3N-½W—Phone 3513—O—Rock Creek.  
 Black, J. D., R1 McLouth—2½N-¾W—R—Union.  
 Black, John, R2 McLouth—5S-2W—R—Sarcoixie.  
 Black, W. H., R1 McLouth—2½N—Phone 5011—O—Union.  
 Bledsoe, Jess, R1 Ozawkie—2E-3S—O—Fairview.  
 Bledsoe, Lewis, R2 Winchester—3E—O—Jefferson.  
 Bleske, Paul, R2 Perry—2½N-½W—Phone 6320—O—Kentucky.  
 Blevins, Frank, R3 Ozawkie—2¾S—O—Fairview.  
 Blevins, John, R4 Oskaloosa—3S—O—Oskaloosa.  
 Bliss, Carl, R3 Oskaloosa—2E-1S—Phone 1903—O—Oskaloosa.  
 Bliss, Chas. P., R4 Oskaloosa—2S-3E—Phone 1921—O—Oskaloosa.  
 Bliss, Harry, R4 Oskaloosa—2S-1E-4S-¼E—Phone 2421—O—Rural.  
 Block, Frank, R1 Williamstown—¼N-2½E-1¾N—O—Rural.  
 Blockwicz, Bert, R2 Oskaloosa—3½W-1½N—Phone 1812—O—Ozawkie.  
 Blockwicz, John, R2 Ozawkie—O—Oskaloosa.  
 Blumberg, Henry, Denison—2½E-1S—Phone 9F91—O—Delaware.  
 Blumberg, Lou, R1 Denison—2½E-½S—Phone 8F84—O—Delaware.  
 Bodde, Henry, R2 Valley Falls—1½S-1W—Phone 3632—O—Delaware.

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Bodde, O. C., R2 Winchester—4E—O—Jefferson.

Boles, T. S., R2 Meriden—4½N—¾W—Phone Rock Creek 411—O—Rock Creek.

Bohannon, L. S., R5 Valley Falls—2E-2S—Phone 4603—O—Delaware.

Bonar, Warren D., Dunavant—Phone Winchester 272—O—Jefferson.

Bond, J. E., R2 McLouth—1S-½W—Phone 6320—O—Union.

Bond &amp; Groff, R1 Nortonville—1W—Phone 1452—O—Norton.

Boroviska, Vancel, R2 Valley Falls—5W-1S—R—Delaware.

Bowen, Addison, R1 Meriden—1¼N-1½E—Phone 5412—R—Rock Creek.

Bowen, C., R2 Valley Falls—4S-2½W—Phone Rock Creek 712—O—Rock Creek.

Bowen, Chas., R3 Oskaloosa—2N-½W—Phone 4403—R—Oskaloosa.

Bowen, Elmer, R5 Valley Falls—3½S—Phone 2123—O—Ozawkie.

Bowen, S. C., R2 Valley Falls—4S-3W—O—Rock Creek.

Bowen, S. T., R2 Valley Falls—3S-2½W—Phone 3403—O—Rock Creek.

Bowen, Sam, R4 Oskaloosa—1½S-1E—Phone 3604—O—Oskaloosa.

Bower, D. E., R1 McLouth—½N—R—Union.

Bowie, J. H., R5 Valley Falls—2½E-2S—Phone 4604—O—Delaware.

Bowman, S. E., R1 Perry—2½N-1E—Phone 7530—R—Kentucky.

Boyce, Harry, R5 Valley Falls—3S-1E—Phone 5721—R—Ozawkie.

Boyd, C., R5 Valley Falls—1E-1S—O—Delaware.

Boyd, H. G., R1 McLouth—5½N—R—Union.

Boyd, Joe, R2 McLouth—5S-3W—O—Sarcoxie.

Boyd, T. H., R2 Winchester—1N-¼W—Phone 60—O—Jefferson.

Boyle, J. E., Boyle Station—¼W—Phone Valley Falls 4414—O—Jefferson.

Bracken, Frank, R1 Perry—2¼E-1¾N—O—Kentucky.

Bracken, J. J., R1 Perry—2E-1½N—O—Kentucky.

Bradford, Chas. O., R2 Perry—1¼N—Phone 6023—O—Kentucky.

Bradford, J. E., R1 McLouth—3E-1½S of Winchester—O—Jefferson.

Brammell, Guy, R1 Ozawkie—½N—R—Ozawkie.

Brammell, H. L., R2 Ozawkie—½N—Phone 746—O—Ozawkie.

Brandon, Albert, R2 Perry—3½N-¾W—Phone 4920—R—Kentucky.

Brandon, F. A., R1 Ozawkie—1E-5½S—R—Fairview.

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Davis, Kenneth, R2 Valley Falls—4½S-2W—R—Rock Creek.  
Davis, L. L., R3 Oskaloosa—4N-1W—Phone 3911—O—Oskaloosa.  
Davis, Mrs., R3 Lawrence—8N-3E—R—Sarcoxie.  
Davis, O. O., R2 Oskaloosa—4N-1½W—Phone 3902—O—Oskaloosa.  
Davis, Tom D., Oskaloosa—Phone 76—O—Oskaloosa.  
Davison, E. B., R2 McLouth—1W-3S—Phone 5940—O—Union.  
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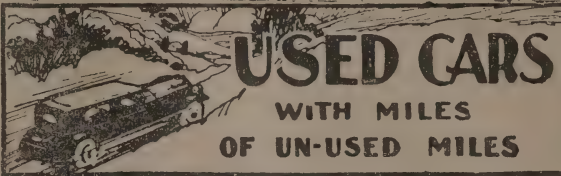


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 Elliott, T. M., R5 Valley Falls—2E-2 $\frac{1}{2}$ S—Phone 4612—O—Delaware.  
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 Ferrell, John V., R5 Valley Falls—2S-½W—Phone 6021—R—Delaware.  
 Ferrell, Lark, R2 Valley Falls—2W—Phone 3820—R—Delaware.  
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 Fleer, O. W., R2 Meriden—3¼N-¼E—Phone 5020—R—Rock Creek.  
 Fleming, P. W., Rock Creek—1N-¼E—Phone 622—O—Rock Creek.  
 Fletcher, H. C., R5 Valley Falls—1½E-1S—Phone 4803—R—Delaware.  
 Flory, Edwin, R1 Valley Falls—4½N-2E—Phone 2803—O—Delaware.  
 Flory, W. O., R3 Lawrence—9N-½E—Phone 757K3—O—Sarcoxis.  
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 Fowler, Chas., R1 McLouth—2N—Phone 6150—R—Union.  
 Fowler, E. N., R1 McLouth—1¾N—Phone 6112—O—Union.  
 Fowler, Fred, R1 Perry—2N-1½E—Phone 7521—O—Kentucky.  
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 Fowler, J. W., R3 Ozawkie—2W-3S—O—Fairview.  
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 Freeman, L. S., R2 McLouth—2½W-3S—Phone 4213—O—Union.  
 Frisbie, Geo. A. & G. H., R1 Grantville—1N—Phone 40F12—O—Kaw.  
 Frisbie, Herbert L., R1 Grantville—1N-¼E—Phone 40F3—O—Kaw.  
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 Gerber, H. C., R1 Meriden— $\frac{1}{2}$ S-1E—Phone 2223—O—Rock Creek.  
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 Gettler, L., R4 Valley Falls—2W-1N—Phone 4711—O—Delaware.  
 Gettler, T., R4 Valley Falls—1W-1 $\frac{1}{2}$ N—Phone 4504—R—Delaware.  
 Gibbs, Ben, R3 Oskaloosa—2E-1 $\frac{1}{2}$ N—Phone 3204—R—Oskaloosa.  
 Gibson, J. S., R3 Oskaloosa—4N-1W—Phone 2311—O—Oskaloosa.  
 Gibson, L. R., R1 Winchester— $\frac{1}{2}$ N—Phone 572—R—Jefferson.  
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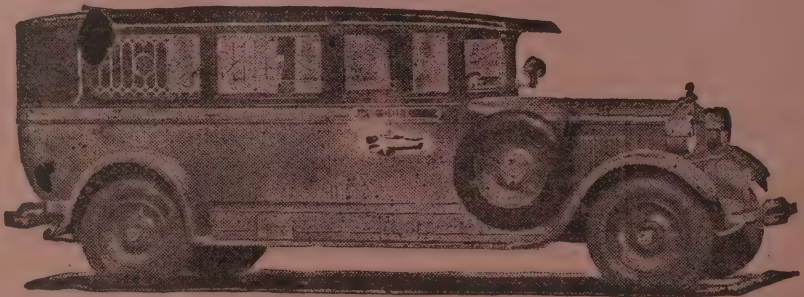


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Mentzer, Otto, R2 Newman—1N- $\frac{1}{4}$ W—R—Kentucky.  
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Merideth, J. A., R2 Valley Falls— $5\frac{1}{2}$ W- $1\frac{1}{2}$ S—Phone 1841—O—Delaware.  
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Metzger, D. C., Newman—Phone Perry 5713—R—Kentucky.  
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Metzger, Grover, R3 McLouth—1N-1E—R—Union.  
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 Smith, A. F., R4 Valley Falls—5W—R—Delaware.  
 Smith, Art, R1 Ozawkie—1E-5 $\frac{1}{2}$ S—Phone 4912—O—Fairview.  
 Smith, C. M., R1 Grantville— $\frac{3}{4}$ W- $\frac{1}{2}$ N—O—Kaw.



# JEFFERSON COUNTY FARM DIRECTORY

65

- Smith, Chas. L., R5 Valley Falls—5S-2E—Phone 1412—R—Ozawkie.  
 Smith, Chester E., R2 McLouth—2½W-4½S—R—Sarcxie.  
 Smith, Dan, R3 Lawrence—½W-8½N—Phone 818F4—O—Sarcxie.  
 Smith, Earl, R1 Williamstown—2½N-2E-¼N—Phone Perry 6913—O—Rural.  
 Smith, F. J., R4 Oskaloosa—2S-½E—Phone 1211—O—Oskaloosa.  
 Smith, George, R3 Lawrence—8½N-1W—O—Sarcxie.  
 Smith, Henry, R1 Ozawkie—1½E-3S—O—Fairview.  
 Smith, I. M., R4 Oskaloosa—2S-14S-½E-1¾S-¾SE—O—Rural.  
 Smith, Irvin, R2 Meriden—6½N-½W—R—Rock Creek.  
 Smith, J. Elmer, R1 Winchester—Joining N.—Phone 11—O—Jefferson.  
 Smith, Mae, Oskaloosa—½N—Phone 203—O—Oskaloosa.  
 Smith, Miley, R2 Perry—3½N-½E—Phone 4923—R—Kentucky.  
 Smith, Orin, R3 Lawrence—½W-9½N—Phone 818F22—O—Sarcxie.  
 Smith, S. E., R4 Valley Falls—5W-1½N—Phone 1813—O—Delaware.  
 Smith, V. E., R2 Valley Falls—6W-2½S—Phone 1811—R—Delaware.  
 Smoots, Arnold, R2 McLouth—1S—Phone 6220—R—Union.  
 Smurr, W. H., R1 McLouth—2½W-3½S—O—Union.  
 Smyth, C. H., R1 Grantville—½E—Phone 59F3—R—Kaw.  
 Soloman, John, R1 Perry—1½N-1E—O—Kentucky.  
 Sova, John, R1 Williamstown—¾N-¼E—O—Rural.  
 Sparks, Arthur, R3 McLouth—1¼E—R—Union.  
 Spence, Noel, R3 Winchester—2½W-1½N—Phone 586—O—Jefferson.  
 Spencer, M. B., R2 Nortonville—4S-1E—O—Norton.  
 Spencer, W. S., R3 Valley Falls—4E—Phone 4120—O—Nortonville.  
 Spielman, Geo., R2 Perry—4¾N-¾W—O—Kentucky.  
 Spillman, C. C., R1 Meriden—2½E-3½N of Grantville—R—Kaw.  
 Spray, C. T., R2 McLouth—2½S-1½E—Phone 4740—O—Union.  
 Spurlock, B. B., R2 Oskaloosa—4½W-3N—O—Ozawkie.  
 Spurlock, S. C., R5 Valley Falls—1½S—Phone 5713—O—Delaware.  
 Stafford, John, R3 Valley Falls—3E-1N—Phone 4903—O—Delaware.  
 Stafford, Mel, R3 Valley Falls—3E-1N—R—Delaware.  
 Stafford, W. S., R1 Dunavant—1N-2W—Phone Valley Falls 5314—O—Delaware.  
 Stahl, Mrs. J. E., R4 Valley Falls—3W-1½N—Phone 4330—O—Delaware.  
 Stallard, Hobart M., R1 Perry—¾S-½W of Williamstown—Phone 7122—Rural.  
 Stallard, Mrs. P. J., R1 Williamstown—¼N-1¼E—Phone Perry 6711—O—Rural.  
 Stallard, T. W., R1 Williamstown—¾S-¼E—Phone Perry 7111—O—Rural.  
 Stanger, Geo., R4 Valley Falls—4½W-½S—Phone 6014—O—Delaware.  
 Stanley, Geo., R2 Meriden—1S—R—Rock Creek.  
 Stanley, Geo., R1 Ozawkie—3S-2¾E—Phone 805—O—Fairview.  
 Stanley, Paul, R1 Boyle—1W-3S—R—Ozawkie.  
 Stark, Gail, R2 Ozawkie—1½W—Phone 784—O—Ozawkie.  
 States, Clarence, R1 McLouth—1W-3N—O—Union.  
 Statler, Ella, R1 Ozawkie—½E—Phone 253—R—Ozawkie.  
 Staub, William, R3 Valley Falls—4E-½N—Phone 4103—O—Norton.  
 Stebbens, Fred, R1 Perry—3½N-½E—Phone 4821—O—Kentucky.  
 Steed, C. E., R2 McLouth—3½S-½E—R—Union.  
 Steed, John, R2 McLouth—3S-½E—O—Sarcxie.  
 Steed, Roy, R3 Tonganoxie—2E-4S—R—Sarcxie.  
 Steeper, H. C., R1 McLouth—1W-2½N—Phone 4922—O—Union.  
 Steffey, D. S., R1 Meriden—3N-3E—R—Rock Creek.  
 Steffey, Floyd, R2 Ozawkie—2N-1½E—Phone 262—O—Ozawkie.  
 Steffey, Ira, R5 Valley Falls—5½S-2E—O—Ozawkie.  
 Steffey, J. M., R1 Meriden—3N-3E—O—Rock Creek.  
 Steffey, M. C., R2 Oskaloosa—5½W-2½N—Phone Ozawkie 324—O—Ozawkie.  
 Steffey, Raymond, R2 Oskaloosa—5½W-3N—O—Ozawkie.  
 Steffey, Roy, R2 Ozawkie—1W—O—Ozawkie.  
 Stein, Ed., R1 Valley Falls—1N—Phone 4030—R—Delaware.  
 Stein, Geo., R1 Grantville—½N-1½E—Phone 61F5—R—Kaw.  
 Stein, Pete, R1 Valley Falls—1½N—Phone 6320—R—Delaware.  
 Stein, W. B., R1 Valley Falls—2N-½E—Phone 1903—O—Delaware.

- Steinmetz, Stephen, R1 Williamstown—3¼N-1E-½N—O—Rural.  
 Stembers, Frank, Ozawkie—2E—Phone 254—R—Ozawkie.  
 Stembers, H. B., R1 Ozawkie—2E—Phone 254—O—Ozawkie.  
 Stembers, Paul, R1 Ozawkie—2E—O—Ozawkie.  
 Stephens, Alvora A., R2 Oskaloosa—5½W-3N—O—Ozawkie.  
 Stephens, G. R., R1 Boyle—4S-1½W—R—Ozawkie.  
 Stephan, Geo. F., R2 Winchester—1½S—Phone 1476—R—Jefferson.  
 Stevens, J. H., Winchester—6N-1¼E of McLouth—O—Union.  
 Steuart, W. H., R1 Winchester—½E—Phone 129—O—Jefferson.  
 Stevens, Chas., R1 Winchester—2½E-1N—R—Jefferson.  
 Stevens, Ed., R2 Winchester—3½E-½S—Phone 984—R—Jefferson.  
 Stevens, Mrs. Geo., R2 Winchester—4½E-1N—Phone 1157—O—Jefferson.  
 Stewart, Chas., R3 Lawrence—10N-1½E—Phone 819F12—O—Sarcoxie.  
 Stewart, H. H., R1 Grantville—2N-½E—R—Kaw.  
 Stewart, J. T., R1 Ozawkie—2½E-2½S—Phone Oskaloosa 1521—O—Fairview.  
 Stewart, L. A., Ozawkie—1W-½S—R—Ozawkie.  
 Stewart, Mr., R1 Grantville—2N-½E—R—Kaw.  
 Stewart, M. F., R3 Lawrence—10N-1¼E—Phone 819F12—O—Sarcoxie.  
 Stewart, R. J., R3 McLouth—1W-6S—O—Sarcoxie.  
 Stewart, Ralph, R3 Lawrence—9N-½E—R—Sarcoxie.  
 Stewart, Ray, R1 Oskaloosa—3S-2W—R—Fairview.  
 Stockton, J. T., R1 Meriden—1E-1N—O—Rock Creek.  
 Stockwell, Andy, R2 Nortonville—3½S-1½E—O—Norton.  
 Stockwell, Parson, R1 Meriden—2S-1½E—O—Rock Creek.  
 Stockwell, William, R2 Valley Falls—½S—R—Delaware.  
 Stoeffler, M. A., R2 Winchester—2½E-1N—Phone 325—O—Jefferson.  
 Stoeffler, L., R1 Winchester—2½N-2E—Phone Oskaloosa 3913—O—Jefferson.  
 Stoner, C. A., R2 Meriden—2½E-¼S—R—Rock Creek.  
 Strange, Carl, R2 Winchester—1½S-1½E—Phone 1121—O—Jefferson.  
 Strange, Ira, R3 Winchester—1½N—Phone 571—R—Jefferson.  
 Strange, Jess, R1 Winchester—3E-1½S—Phone 819—O—Jefferson.  
 Strange, Mrs. W. R., R2 Winchester—1½E-2S—Phone 1215—O—Jefferson.  
 Strawn, Edd, R1 Valley Falls—6W-4N—Phone Denison 16F58—R—Delaware.  
 Strawn, J. W., R1 Valley Falls—5N-2W—Phone 1512—O—Delaware.  
 Sturgeon, H. J., R2 Meriden—2E-3N—Phone Rock Creek 2312—O—Rock Creek.  
 Summerville, R., Oskaloosa—3½N-1W—O—Oskaloosa.  
 Sutter, Fred, R1 Perry—½E-¾S—Phone 6421—O—Kentucky.  
 Swain, C. O., R2 McLouth—1½E-2S—O—Union.  
 Sweet, L. J., R2 Nortonville—1½S-1E—R—Norton.  
 Sweet, Magdaline, R2 Nortonville—1½S-1E—O—Norton.  
 Swickard, H. A., R1 Meriden—1½E-2N—Phone 5430—O—Rock Creek.  
 Swickard, H. N., R1 Meriden—1¼E—Phone 3013—O—Rock Creek.  
 Swofford, Sidney, R1 Ozawkie—1½E-5½S—Phone Perry 6330—O—Fairview.  
 Swoyer, Frank, R2 Winchester—1½S-1E—Phone 1214—O—Jefferson.  
 Swoyer, Frank, Jr., R2 Winchester—3E-½N—R—Jefferson.  
 Swoyer, Geo. W., R1 Winchester—2½E-1½N—O—Jefferson.

## T

- Tabbert, Carl, R2 Perry—2N-½E—Phone 6014—O—Kentucky.  
 Tabbert, Chas., Oskaloosa—6S-2W—Phone Perry 5214—O—Kentucky.  
 Taggart, John, R1 Meriden—1½N-2½E—Phone Rock Creek 2311—O—Rock Creek.  
 Taggart, W. E., R1 Meriden—1½N-3E—Phone Rock Creek 1521—O—Rock Creek.  
 Tait, Harvey, R4 Valley Falls—3W-1N—Phone 4323—O—Delaware.  
 Tait, Wm., R4 Valley Falls—4W-2N—Phone 4311—O—Delaware.  
 Tall, Ed., R3 Valley Falls—3E—Phone 3932—R—Delaware.  
 Taylor, Chas. H., R3 Valley Falls—2E-1½N—Phone 5632—O—Delaware.  
 Taylor & Davis, R3 Oskaloosa—2½N—Phone 1304—O&R—Oskaloosa.



# JEFFERSON COUNTY FARM DIRECTORY

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- Taylor, H. W., R1 Grantville— $\frac{3}{4}$ W-1N—Phone 55F14—O—Kaw.  
 Taylor, J. E., R2 Nortonville— $\frac{1}{2}$ S-3E—R—Norton.  
 Tenpenny, Alfred, R1 Perry— $2\frac{1}{2}$ S-1E—Phone 5522—R—Kentucky.  
 Tenpenny, J. H., R1 Ozawkie—3W-2S of Oskaloosa—O—Oskaloosa.  
 Tenpenny, Pat, R1 Williamstown— $2\frac{3}{4}$ N—Phone Perry 6513—O—Rural.  
 Tenpenny, Sport, R4 Oskaloosa—2S-1W-3S—R—Rural.  
 Tenpenny, T., R1 Perry— $2\frac{1}{4}$ E- $\frac{3}{4}$ N of Williamstown—O—Rural.  
 Terry, J. L., R1 Ozawkie—3E-5S—O—Fairview.  
 Thiry, Clifford, R3 Lawrence— $2\frac{1}{4}$ E- $5\frac{1}{4}$ N—Phone 746K4—R—Sarcoxie.  
 Thiry, J. F., R3 Lawrence— $2\frac{1}{4}$ E- $6\frac{1}{2}$ N—Phone 746N2—O—Sarcoxie.  
 Thiry, W. C., R2 Oskaloosa— $2\frac{1}{2}$ W- $5\frac{1}{2}$ S—Phone Lawrence 818F14—O—Sarcoxie.  
 Tholl, Thos. D., R2 Valley Falls—2W—Phone 5212—O—Delaware.  
 Thomas, John, R2 Perry— $2\frac{1}{2}$ W- $\frac{3}{4}$ S—Phone 5014—R—Kentucky.  
 Thomas, Leslie D., R1 Grantville—2E—Phone 47F21—R—Kaw.  
 Thomas, Louis, R1 Meriden—3N- $1\frac{1}{2}$ E of Grantville—R—Kaw.  
 Thomas, Wm., R1 Meriden— $2\frac{1}{2}$ E- $3\frac{1}{2}$ N of Grantville—Phone Grantville 34F5—O—Kaw.  
 Thompson, B. A., R1 Perry— $1\frac{1}{2}$ N-2E—Phone 7422—O—Kentucky.  
 Thompson, C. E., R1 McLouth— $1\frac{1}{2}$ N- $1\frac{1}{4}$ W—O—Union.  
 Thompson, C. H., Ozawkie—7S- $\frac{1}{2}$ E—Phone Perry 5114—O—Kentucky.  
 Thompson, Chas., R1 Perry— $2\frac{1}{2}$ S-1E—Phone 5523—O—Kentucky.  
 Thompson, D. A., R1 Perry—4N-1E—Phone 4813—R—Kentucky.  
 Thompson, L. J., R3 Oskaloosa— $\frac{1}{2}$ N—Phone 2805—O—Oskaloosa.  
 Thompson, R. L., R2 Winchester—1S- $\frac{1}{2}$ E—Phone 742—R—Jefferson.  
 Thornburg, Chas. J., R2 Winchester—1S—R—Jefferson.  
 Thornburg, J. H., R2 Nortonville—1W- $\frac{1}{2}$ S—Phone 2966—O—Norton.  
 Thorp, Chas., R5 Valley Falls— $3\frac{1}{2}$ S-3E—Phone 4613—R—Ozawkie.  
 Torrence, J. C., R1 Arrington—3S-2W—Phone Larkinsburg 3F22—O—Delaware.  
 Tosh, Cecil, R5 Valley Falls— $3\frac{1}{2}$ S- $2\frac{1}{2}$ E—R—Ozawkie.  
 Tosh, J. H., R5 Valley Falls— $3\frac{1}{2}$ S-1E—O—Ozawkie.  
 Tosh, J. O., R5 Valley Falls—4S- $1\frac{1}{2}$ E—Phone 5712—O—Ozawkie.  
 Transeau, Aaron, Perry— $\frac{1}{4}$ S- $\frac{1}{2}$ W—O—Kentucky.  
 Trapp, Luther L., R5 Valley Falls—4S- $1\frac{1}{2}$ E—O—Ozawkie.  
 Trent, Garrett, R2 Perry— $\frac{1}{4}$ W—Phone 37—O—Kentucky.  
 Trimble, James, R3 Winchester—5N- $1\frac{1}{2}$ E of Oskaloosa—O—Oskaloosa.  
 Trimble, R. M., R2 Ozawkie—4W- $2\frac{1}{2}$ N—R—Rock Creek.  
 Trimble, R. R., R3 Valley Falls—3E-2N—Phone 4130—O—Delaware.  
 Trower, Chester L., R2 Oskaloosa— $5\frac{1}{2}$ W- $3\frac{1}{2}$ N—O—Ozawkie.  
 Trower, Geo. E., R2 Winchester— $1\frac{1}{2}$ S- $1\frac{1}{2}$ E—O—Jefferson.  
 Trower, J. W., Oskaloosa—2N-1E—O—Oskaloosa.  
 Trower, L. O., R2 Winchester— $1\frac{1}{2}$ S-3E—O—Jefferson.  
 Trower, Lester, R1 McLouth— $5\frac{1}{2}$ N-1W—R—Union.  
 Trower, T. W., R2 Winchester— $\frac{1}{2}$ S- $1\frac{1}{2}$ E—R—Jefferson.  
 True, Frederick, R2 Perry— $4\frac{1}{2}$ W- $1\frac{1}{2}$ N—O—Kentucky.  
 True, J. F., R2 Perry—3W- $1\frac{1}{2}$ N—O—Kentucky.  
 Trusty, Clinton, R3 Lawrence—9N-1W—R—Sarcoxie.  
 Tucking, C. W., R1 Boyle— $\frac{1}{2}$ W- $\frac{1}{2}$ S—Phone Valley Falls 4413—O—Jefferson.  
 Tucking, J. E., R2 Nortonville—4S—Phone Valley Falls 5520—O—Norton.  
 Turner, Robt. E., R2 Oskaloosa— $3\frac{1}{2}$ N-4W—Phone Valley Falls 4722—O—Ozawkie.  
 Turner, Walter, R2 McLouth— $2\frac{1}{2}$ S-1W—R—Union.  
 Turpin, M. T. & Walter, R2 Perry—4E- $1\frac{1}{2}$ S of Grantville—Phone 5050—R—Kaw.  
 Twaits, Garrett, Williamstown—Phone Perry 4621—O—Rural.  
 Tyler, Wilson, Dunavant—5N-1W—Phone Winchester 1798—O—Oskaloosa.  
 Tyrell, Lawrence, R1 Perry— $\frac{1}{2}$ E- $\frac{1}{2}$ N—Phone 5620—R—Kentucky.

## U

- Uhl, John, R4 Valley Falls—4W—Phone 5632—R—Delaware.  
 Underwood, Wm., R2 Perry— $\frac{3}{4}$ N—O—Kentucky.  
 Unfred, Luther, R3 Oskaloosa—4N- $1\frac{1}{2}$ E—R—Oskaloosa.  
 Utz, Eva, R2 Valley Falls—2W-1S—Phone 3211—O—Delaware.

## V

Vanderpool, E. E., Oskaloosa—3S-2W—Phone 2103—O—Oskaloosa.  
 Van Druff Bros., R3 Lawrence—6E-2N—R—Sarcoxie.  
 Van Druff, E. M., R3 Valley Falls—1E—O—Delaware.  
 VanGaasbeek, Geo., R2 Oskaloosa— $\frac{3}{4}$ N- $\frac{1}{2}$ W—Phone 1403—R—Oskaloosa.  
 VanGaasbeek, H., R3 Oskaloosa—2E-1N—R—Oskaloosa.  
 Van Hole, John, R3 Valley Falls—3N-4W—R—Delaware.  
 Van Hóle, Rame, R1 Arrington—4S-1 $\frac{1}{2}$ W—R—Delaware.  
 Van Horn, J. A., R1 Nortonville—3 $\frac{1}{2}$ W—Phone 3465—R—Norton.  
 Varner, Geo., R4 Oskaloosa—9S-3E—O—Sarcoxie.  
 Varner, Ronald, R2 Nortonville—2S-2W—Phone 2452—R—Norton.  
 Varner, W. T., R2 Nortonville—1 $\frac{1}{2}$ S-2W—O—Norton.  
 Vausbinder, Ralph, R1 Williamstown— $\frac{1}{4}$ N-2 $\frac{1}{2}$ E-1 $\frac{1}{2}$ N—R—Rural.  
 Vauthrin, M. R., R1 Meriden—1S-5E—O—Fairview.  
 Veasart, J. P., R1 Grantville— $\frac{1}{2}$ N-2E—Phone 48F11—R—Kaw.  
 Viets, C. H., R6 Lawrence—8 $\frac{1}{2}$ N-1 $\frac{1}{2}$ E—Phone 818F12—O—Sarcoxie.  
 Vigus, Chas. B., R1 Oskaloosa— $\frac{1}{2}$ W—Phone 3803—R—Oskaloosa.  
 Viles, Mrs. Jess, R1 Perry—2 $\frac{1}{2}$ E- $\frac{1}{2}$ N—O—Kentucky.  
 Vogel, Frank, R1 Perry—3 $\frac{1}{2}$ N- $\frac{1}{2}$ E—Phone 5814—Kentucky.  
 Voelstedt, Herman, R3 Ozawkie—8 $\frac{1}{4}$ S—O—Kentucky.

## W

Wagner, J. E., R1 Ozawkie—1E-4 $\frac{1}{2}$ S—O—Fairview.  
 Wagoner, J. D., R1 Boyle—2N- $\frac{1}{2}$ W—O—Jefferson.  
 Walbridge, J. C., R2 McLouth—1 $\frac{3}{4}$ W-1 $\frac{1}{2}$ S—Phone 4220—O—Union.  
 Walbridge, Marvin, R2 McLouth—1 $\frac{3}{4}$ W- $\frac{1}{2}$ S—R—Union.  
 Walker, E. L., R2 Valley Falls— $\frac{1}{2}$ S—Phone 5812—O—Delaware.  
 Walker, J. F., R4 Valley Falls—3 $\frac{1}{2}$ N-3W—Phone 2212—O—Delaware.  
 Wallace, Loyd, R1 Winchester—1 $\frac{1}{2}$ N—Phone 578—O—Jefferson.  
 Wallisch, J. W., R4 Valley Falls—1W-1N—Phone 4521—R—Delaware.  
 Walter, A. M., Oskaloosa—3N-2E—R—Oskaloosa.  
 Walter, C. P., R1 Grantville— $\frac{3}{4}$ E—Phone 47F12—O—Kaw.  
 Ward, Alfred, R3 Lawrence—3 $\frac{1}{2}$ N-1W—R—Sarcoxie.  
 Ward, I. E., R3 Lawrence— $\frac{1}{2}$ W-8 $\frac{1}{2}$ N—O—Sarcoxie.  
 Ward, Wesley, R4 Oskaloosa—9S-3 $\frac{1}{2}$ E—O—Sarcoxie.  
 Warner, Frank, Denison—2 $\frac{1}{2}$ E—Phone 3F4—O—Delaware.  
 Warren, G. M., R1 Winchester—2 $\frac{1}{2}$ N- $\frac{1}{2}$ E—R—Jefferson.  
 Watson, Emmet, R2 Ozawkie—4W-3 $\frac{1}{4}$ N—Phone Rock Creek 711—R—  
 Rock Creek.  
 Webb, Roy, R1 Meriden—4N of Grantville—Phone Grantville 40F13—R—  
 Kaw.  
 Weber, Ed., R5 Valley Falls—3 $\frac{1}{2}$ S-1W—Phone 2111—O—Ozawkie.  
 Weber, Fred, R5 Valley Falls—3 $\frac{1}{2}$ S-1W—R—Ozawkie.  
 Weber, Peter, R2 Nortonville—3E-1S—Phone 1266—O—Norton.  
 Weeks, C. I., R1 Oskaloosa—3S-2 $\frac{1}{2}$ W—Phone 3702—O—Oskaloosa.  
 Weibel, Mrs. Della, R3 Lawrence—8N- $\frac{1}{2}$ W—Phone 771N6—O—Sarcoxie.  
 Weibel, Elmer, R3 Lawrence—6N- $\frac{1}{2}$ W—Phone 771N4—R—Sarcoxie.  
 Weibel, W. E., R3 Ozawkie—4 $\frac{1}{2}$ S—O—Fairview.  
 Weidemair, John, R1 Perry—4N-1 $\frac{1}{2}$ E—Phone 5240—O—Kentucky.  
 Weishaar, Frank, R2 Nortonville—2S—Phone 975—O—Norton.  
 Weir, T. C., Winchester—5N-2E of Oskaloosa—Phone 974—O—Oskaloosa.  
 Weishaar, Claude, R2 Nortonville—3 $\frac{1}{2}$ S—R—Norton.  
 Weishaar, Henry, R2 Nortonville—2E—Phone 3551—O—Norton.  
 Welborn, W. H., R3 Ozawkie—4 $\frac{3}{4}$ S—R—Fairview.  
 Welch, Cora, R2 Meriden—1 $\frac{1}{2}$ N-1E—Phone 5421—O—Rock Creek.  
 Welch, Henry, R1 Meriden—2S-4E—O—Fairview.  
 Wellman, D. A., R4 Oskaloosa—3 $\frac{1}{2}$ W-5S—Phone 2204—O—Sarcoxie.  
 Wellman, Harry M., R2 McLouth—1W-5S—O—Sarcoxie.  
 Wellman, W. A., R1 McLouth—4 $\frac{1}{2}$ S-2 $\frac{1}{2}$ W—Phone Oskaloosa 3313—O—  
 Sarcoxie.  
 Wellman, W. W., R2 McLouth—3W-3 $\frac{1}{2}$ S—Phone Oskaloosa 3304—O—  
 Sarcoxie.  
 Welter, J. F., R1 Perry— $\frac{1}{4}$ E—Phone 5611—O—Kentucky.



# JEFFERSON COUNTY FARM DIRECTORY

69

- Welter, Steve, R1 Williamstown— $\frac{1}{4}$ S—Phone Perry 7130—R—Rural.  
Wenzl, A. L., R3 Valley Falls—3E—Phone 3930—O—Delaware.  
Wenzl, Eugene, R4 Valley Falls— $4\frac{1}{2}$ W— $\frac{1}{2}$ S—Phone 6030—O—Delaware.  
Werst, Perry, R1 Winchester— $6\frac{1}{2}$ N—2W—O—Union.  
West, W. R., R2 Meriden— $2\frac{1}{4}$ N—Phone 5011—O—Rock Creek.  
Westbrook, Ray, R1 Meriden—2E—3S—Phone 2040—R—Rock Creek.  
Westhafer, R. D., R3 Oskaloosa—4N—1W—Phone 2322—O—Oskaloosa.  
Wettig, John, R4 Valley Falls— $2\frac{1}{2}$ W—Phone 6012—O—Delaware.  
Wettig, Walter, R2 Valley Falls— $2\frac{1}{2}$ W— $1\frac{1}{2}$ S—O—Delaware.  
Wettig, Wm., North Cedar—1S—Phone Valley Falls 1821—O—Delaware.  
Wheeler, H. M., Oskaloosa—2W—1S—Phone 4303—O—Oskaloosa.  
Wheeler, Inez C., R1 Oskaloosa—2W—1S—Phone 4304—O—Oskaloosa.  
White, A. J., R3 Winchester—5N—2E of Oskaloosa—O—Oskaloosa.  
White, Arthur, R1 Williamstown— $\frac{1}{4}$ N—2E— $\frac{1}{2}$ S—Phone Perry 6840—R—Rural.  
White, B. F., Williamstown—Phone Perry 4613—O—Rural.  
White, D. M., R1 McLouth— $5\frac{1}{2}$ N—1W—O—Union.  
White, E. F., R5 Valley Falls—3S—Phone 3620—O—Ozawkie.  
White, Eugene, R1 Oskaloosa—3S—2W—R—Oskaloosa.  
White, O. P., R1 Meriden— $2\frac{1}{2}$ S—3E—R—Rock Creek.  
White, S. E., R2 McLouth— $1\frac{1}{2}$ S—Phone 6421—O—Union.  
Whitehead, F. C., R1 Meriden— $2\frac{1}{2}$ E— $2\frac{1}{2}$ N of Grantville—O—Kaw.  
Whitehead, J. G. & May, R1 Grantville—3E—1N—Phone 21F3—O—Kaw.  
Wieland, E. L., R1 Ozawkie— $1\frac{1}{2}$ E—2S—Phone 537—O—Fairview.  
Wigand, W. H., R2 Nortonville— $1\frac{1}{2}$ S— $\frac{1}{2}$ E—Phone 2355—R—Norton.  
Wilbur, J. P., R3 Lawrence— $\frac{1}{4}$ N— $3\frac{1}{2}$ E— $\frac{1}{2}$ N—Phone 754N4—O—Rural.  
Wilbur, W. T., R3 Lawrence— $8\frac{1}{2}$ N— $\frac{1}{4}$ W—Phone 818F11—R—Sarcxie.  
Wilcoxon, Carl, R2 Meriden— $1\frac{3}{4}$ N—R—Rock Creek.  
Wiley, J. M., R3 Ozawkie—2S— $\frac{1}{2}$ W—Phone 302—O—Fairview.  
Wiley, Lew, R3 Oskaloosa—2N—Phone 3403—O—Oskaloosa.  
Williams, A. C., R5 Valley Falls—1S— $\frac{1}{2}$ E—Phone 1132—O—Delaware.  
Williams, C. L., R1 Grantville— $\frac{1}{2}$ S— $1\frac{1}{2}$ W—Phone 38F12—R—Kaw.  
Williams, Ed., R2 Perry—5W—1S—R—Kentucky.  
Williams, Leonard, R2 Perry—1N—Phone 80—O—Kentucky.  
Williams, Neil, Meriden— $4\frac{1}{2}$ E—Phone 3121—O—Fairview.  
Williams, Nick, R3 Lawrence—6N— $1\frac{1}{2}$ E—R—Sarcxie.  
Williams, Sarah, R1 McLouth— $1\frac{1}{2}$ N—2W—O—Union.  
Williamson, A. B., Oskaloosa—2S— $\frac{1}{2}$ W—Phone 2112—R—Oskaloosa.  
Williamson, R. E., R4 Valley Falls— $2\frac{1}{2}$ W—1N—Phone 4332—R—Delaware.  
Williamson, Thos., R1 Oskaloosa— $3\frac{1}{2}$ S—1W—O—Oskaloosa.  
Willitts, L. J., R1 McLouth—3N— $\frac{3}{4}$ W—Phone 5013—O—Union.  
Williver, Geo., R2 McLouth—6S—2W—R—Sarcxie.  
Wills, Frank, R3 Lawrence—5N— $1\frac{1}{2}$ E—O—Sarcxie.  
Wills, G. W., R2 Valley Falls—1S— $1\frac{1}{2}$ W—Phone 2921—R—Delaware.  
Wilson, E. Carl, R2 Oskaloosa— $2\frac{1}{2}$ W— $2\frac{1}{2}$ N—O—Oskaloosa.  
Wilson, J. M., R3 Valley Falls—3N—3E—Phone 4141—O—Delaware.  
Wilson, R. L., R2 Ozawkie—2E— $2\frac{1}{2}$ N—O—Ozawkie.  
Wilson, S. E., R1 Grantville—1N—Phone 40F2—O—Kaw.  
Wilson, T. V., R3 Oskaloosa—2N—2E—Phone 3003—O—Oskaloosa.  
Wilson, W. T., R3 Valley Falls—3N—3E—O—Delaware.  
Winans, Chas., R1 Oskaloosa— $3\frac{3}{4}$ S—2W—Phone 2511—O—Oskaloosa.  
Winfrey, Curtis, R2 McLouth— $1\frac{3}{4}$ S— $\frac{1}{2}$ E—O—Union.  
Winfrey, J. J., R2 McLouth—2S— $\frac{1}{2}$ E—Phone 4720—O—Union.  
Winrick, Mrs. John, R1 Ozawkie—1E—6S—Phone Perry 4922—O—Fairview.  
Winter, Harold, R2 Valley Falls— $3\frac{1}{2}$ S— $5\frac{1}{2}$ W—R—Rock Creek.  
Wiscombe, H. W., R1 Grantville— $1\frac{1}{2}$ N—O—Kaw.  
Wistuba, Mrs. Carl, R2 Winchester— $1\frac{1}{2}$ E— $\frac{1}{2}$ N—Phone 1145—O—Jefferson.  
Wistuba, Mary, R1 Winchester— $2\frac{1}{2}$ E—3N—Phone 3914—O—Jefferson.  
Witmer, J. M., R3 Oskaloosa—1S—1E—Phone 1711—O—Oskaloosa.  
Witt, J. M., R1 Potter—5W—1S—Phone Winchester 1229—O—Norton.  
Wofford, Herschel, R2 Valley Falls—4W—5S—R—Rock Creek.  
Wofford, Homer, R2 Meriden— $5\frac{1}{4}$ N—R—Rock Creek.  
Wofford, J. O., R2 Valley Falls—4W—5S—Phone Rock Creek 3012—R—Rock Creek.

# JEFFERSON COUNTY FARM DIRECTORY

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- Wolfe, H. G., R3 Ozawkie—1W-6S—Phone Perry 5911—R—Fairview.  
 Wolfe, L. L., R3 Ozawkie—1W-6S—Phone Perry 5930—O—Fairview.  
 Wolthausen, Wm. A., R1 Valley Falls—3½N-1W—Phone 1223—O—Delaware.  
 Wood, C. H., R4 Valley Falls—4W-2½N—Phone 1722—O—Delaware.  
 Wood, G. W., R2 Meriden—2¾N-1W—Phone 4123—O—Rock Creek.  
 Wood, M. A., R3 Lawrence—5½N-¼W—Phone 819F2—O—Sarcoxie.  
 Wood, T. S., R4 Valley Falls—4½W-3N—Phone 1750—O—Delaware.  
 Wood, S. C., R4 Valley Falls—5W-3N—Phone 1712—R—Delaware.  
 Wood, Walter, R4 Valley Falls—5W-3N—R—Delaware.  
 Woolaway, Robt., R2 Oskaloosa—4N-5W—O—Ozawkie.  
 Woolaway, Roscoe, R2 Oskaloosa—3N-1W—R—Oskaloosa.  
 Woodhead, Matt, R1 McLouth—2N—O—Union.  
 Woodward, Chas., R2 Winchester—3E-1½N—O—Jefferson.  
 Woodward, W. H., R1 Meriden—2E-2S—R—Rock Creek.  
 Worland, Dale, R1 Williamstown—½S-1E—Phone Perry 7230—R—Rural.  
 Worthington, James, R2 Perry—6N-1½E—Phone 6340—O—Kentucky.  
 Worthington, Jesse, R3 Ozawkie—4S—R—Fairview.  
 Worthington, J. P., R2 Perry—5N-1½W—Phone 6314—O—Kentucky.  
 Worthington, W. M., R2 Perry—1W-¾N—Phone 6120—Kentucky.  
 Worthington, Warden, R2 Perry—3N-1½W—Phone 6313—R—Kentucky.  
 Worthington, John, R3 Ozawkie—1¼W-5½S—R—Fairview.  
 Worthington, Leslie, R1 Ozawkie—4½S—R—Fairview.  
 Wray, Floyd, R1 Williamstown—¼N—R—Rural.  
 Wray, T. L., R3 Oskaloosa—2½N-1W—Phone 4412—O—Oskaloosa.  
 Wray, W. H. & W. J., R1 McLouth—5N-2W—Phone Winchester 1235—O—Union.  
 Wray, W. W., R2 Meriden—5½N—Phone Rock Creek 1011—O—Rock Creek.  
 Wright, E. E., R2 McLouth—3½S-½E—O—Union.  
 Wright, J. D., R1 Perry—2N-½E—Phone 4831—O—Kentucky.  
 Wright, J. E., R2 Ozawkie—1½E-2½N—Phone 528—O—Ozawkie.  
 Wright, Matilda A., R1 Grantville—½S-1W—Phone 38F3—O—Kaw.  
 Wright, R. T., R1 Grantville—½W—Phone 38F4—O—Kaw.  
 Wunder, F. F., R4 Valley Falls—4½W-½S—Phone 6023—O—Delaware.  
 Wunder, J. F., R4 Valley Falls—4½W—Phone 6524—O—Delaware.  
 Wyatt, C. W., R2 McLouth—2½W-½S—Phone 5821—O—Union.

## Y

- Yardley, Fred, Ozawkie—9S—R—Kentucky.  
 Yenkey, Lewis, R1 Grantville—1½S—Phone 39F5—O—Kaw.  
 Yoakum, H. P., R2 Meriden—2½N—Phone 5022—O—Rock Creek.  
 Yost, John, R2 Perry—3¼N-1W—Phone 5122—O—Kentucky.  
 Yost, W. A., R1 McLouth—1W—R—Union.  
 Young, F. D., R2 Winchester—1½S—O—Jefferson.  
 Young, G. W., R1 Winchester—5½N-2½W—Phone 1232—O—Union.

## Z

- Zachariah, John, R1 Oskaloosa—1S-1E—Phone 3802—O—Oskaloosa.  
 Zachariah, Kenneth, R1 McLouth—4½N-½E—R—Union.  
 Zachariah, M. M., R1 McLouth—4½N-¼E—Phone 6330—O—Union.  
 Zelfer, John, R1 Winchester—2½N-1E—R—Jefferson.  
 Zelfer, John, R1 Winchester—3½N-½W—R—Jefferson.  
 Zeller, Fred, R2 Valley Falls—2½N-1W of Rock Creek—R—Rock Creek.  
 Zimmerman, J. F., Valley Falls—1½E-1N—Phone 4941—R—Delaware.  
 Zinn, Jesse, R1 Meriden—½E-4N of Grantville—R—Kaw.  
 Zinn, S., R1 Denison—2½E—Phone 10F74—O—Delaware.  
 Zinn, W. A., R1 Grantville—¾W-1¼N—Phone 55F13—R—Kaw.  
 Zinn, W. H., R4 Valley Falls—6W-3N—Phone Denison 5F74—O—Delaware.  
 Ziskie, Geo., R3 Valley Falls—3E-½N—R—Delaware.  
 Zook, H., R1 McLouth—2½N-2½N—O—Union.  
 Zook, H. C., R2 McLouth—¾S-1W—O—Sarcoxie.  
 Zook, M., R2 McLouth—1W-5S-¾E—O—Sarcoxie.



# Purebred Breeders Directory

The following list of breeders of purebred livestock and poultry was furnished by the township assessors. No claim is made that it is entirely complete or without errors. Inasmuch as no records are available for this data, it is possible a few farmers with purebred animals have been overlooked and likely some names appear on the list who have excellent grade stock but not purebred.

By referring to regular list of names, information may be obtained as to where each party listed is located in the county.

## CATTLE

### AYRSHIRES

Curl, Earl C.

### BLACK ANGUS

Davis, C. D.

### GUERNSEYS

Shirley, W. T.

Sinnard, Gilbert

### HEREFORDS

Boyd, T. H.

Lawrence, F. A. & Son

Abmeyer, B. F.

Mitchell, A. R.

### HOLSTEINS

Abmeyer, B. F.

Baker, Mike

Bigham, M. G.

Blevins, Frank

Champion, Fred

Coleman, I. V.

Dellinger, Geo.

Dockhorn & Patrick

Drummins, J. G.

Frisbie, Geo. A. & G. H

Johnston, Roy

Long, W. C.

Marker, C. F.

McGeehee & Parsons

Mongold, J. L.

Quinlan, Thos. F.

Schultz, F. A.

Van Gaasbeek, Geo.

### JERSEYS

Baker, Guy

Boroviska, Vancel

Bowen, D. E.

Brown, E. L.

Bray, Robert

Carder, Arthur

Dailey, John

Davis, E. S.

Dunn, I. M.

Gross, Goe. D.

Lowe, O. C.

Marker, C. F.

Smith, Henry

Smith, Mae

## SHORTHORNS

Burton, S. L.

Cashatt, Paul E.

Chrisyt R. D.

Clark, Christena

Cory, W. T.

Donnevik, Serel

Eshom, E. J.

Ferrell, J. A.

Gramse, Albert

Hannah, J. C.

Marks, M. F.

Ororke, J. R.

Premaur, Frank

Ritcher, R. E.

Sherwood, John W.

Whitehead, J. G.

## SPOTTED POLANDS

Bowen, Sam

Casebier, L. B.

Cook, N. W.

Groves, T. M.

Long, Kenneth

Ororke, J. R.

## HAMPSHIRE

Schultz, Guy E.

## HORSES

### PERCHERONS

Bruns, Mrs. F. J.

### NORMANS

Becker, Elmer

## HOGS

### CHESTER WHITES

Haynes, Harry W.

### DUROCS

Bigham, M. G.

Cook, L. G.

Denneler, F. J.

Harding, Noah

Hlsten, Guy & Ray

Ijams, E. C.

Lowe, O. C.

Perry, A. D.

Ross, J. E.

Schmidt, Louis

Sinnard, Gilbert

Small, A. M.

Stember, H. B. & Frank

Stember, Paul

Winans, Chas.

### O. I. C.

Davis, Tom D.

Drummins, J. G.

### POLAND CHINAS

Dunn, C. C.

Elliott, J. F.

Quinlan, John

Quinlan, Thos. & Wm.

Stahl, Mrs. J. E.

## SHEEP

### SHROPSHIRE

Bower, Sam

Davis, Tom D.

Drummins, J. G.

Shrader, W. W.

### NUBIAN MILK GOATS

Ritcher, Carl,

## POULTRY

### ANCONAS

Metzger, Chas.

Miller, H. J.

### LIGHT BRAHMAS

McEndree, G. W.

### BLACK GIANTS

Bates, Mrs. L. J.

### BROWN LEGHORNS

Casebier, L. B.

Ororke, R. E.

### BUFF LEGHORNS

Newell, Hal

Newell, Ray

## BREEDERS PUREBRED DIRECTORY (Continued)

## WHITE LEGHORNS

Ackley, John  
 Beasore, D. M.  
 Becker, T. A.  
 Riley, Philip & Fred  
 Binney, H. F.  
 Brown, C. W.  
 Cook, N. W.  
 Coppinger, F. J.  
 Davis, G. E.  
 Denneler, A. H.  
 Dockhorn & Patrick  
 Eggert, Herman  
 Elkington, C. P.  
 Garner, Oliver  
 Hawk, Harry O.  
 Heinleigh, M. M.  
 Johnston, Roy  
 Lindsay, Ed. C.  
 McCullough, R. W.  
 McGeehee & Parson  
 Nixon, S. B.  
 Norman, T. F.  
 Petrie, C. G.  
 Petrie, Chas. A.  
 Rice, C. E., Jr.  
 Rice, C. E., Sr.  
 Rodecap, A. H.  
 Shaw, E. D.  
 Smith, Dan  
 Stanley, Paul  
 Van Gaasbeek, Geo.  
 Ward, Wesley  
 Wellman, Harry M.  
 Wilson, S. E.

## W. MINORCAS

Schultz, J. W.

## BUFF ROCKS

Nottingham, J. E.  
 Wellman, W. A.

## WHITE ROCKS

Bell, H. W.  
 Black, W. H.  
 Clark, L. L.  
 Ford, Courtney  
 Jones, C. M.  
 Johnson, H. L.  
 Simpson, R. C.  
 Small, A. M.

## BARRED ROCKS

Beck, C. C.  
 Ferris, H. A.  
 Ford, J. A.  
 Harding, W. R.  
 Hunsucker, J. B.  
 Johnson, J. H.  
 Johnson, C. E.  
 Perry, A. D.  
 Putthoff, J. H.  
 Riley, George W.  
 Ritcher, Carl  
 Shirley, H.  
 Woods, M. A.

## BUFF ORPINGTONS

Hannah, J. C.  
 Nash, H. G.  
 Welter, C. P.

## R. I. REDS

Abmeeyr, B. F.  
 Barnes, Jeff  
 Cathcart, E. J.  
 Domann, Ben  
 Leger, John  
 Denneler, F. J.  
 Ferrell, Curt  
 Housh, Fred N.  
 Hunsucker, J. G.  
 Keyes, R. B.  
 Martin, Chas. H.  
 Morgan, W. R.  
 Shrader, W. W.  
 Walker, J. F.  
 Wyatt, C. W.

## W. WYANDOTTES

Brooks, C. C.  
 Montague, Joe  
 Shonkwiler, Chas.

## FRUIT

The following specialize in various kinds of fruit:

Anno, James  
 Detlor, W. W.  
 Givens, J. S.  
 Glyn, M.  
 Holt, J. T.  
 Hurd, A. C.  
 Witmer, J. M.  
 Hannah, J. C.

## HAY MEASUREMENTS

To measure hay in the mow, multiply the length, width and depth in feet together and divide by 405, if the hay is well settled and the mow deep.

Alfalfa hay that has been stacked 30 days will require about 512 cubic feet to a ton. When the hay has been stacked 5 or 6 months, usually 422 cubic feet is calculated for a ton. In old, fully settled stacks, about 350 cubic feet will be about right.

To find the number of tons in a rick, measure the distance in feet from the bottom of the rick on one side to the bottom on the other side; add to this the average width of the rick in feet, divide by 4 and multiply the quotient itself and this product by the length of the rick in feet. This will give the number of cubic feet in the rick. Divide by 512, 422 or 350 to find the number of tons.

For a conical stack: Find the circumference at or above the base or bulge at a height that will average the base from there to the ground; find the vertical height of the measured circumference from the ground and the slant height from the measured circumference to the top of the stack in feet. Multiply the circumference by itself; divide by 100; and multiply by 8; then multiply the result by the height of the base plus one-third of the slant height at the top, divided by 512, 422 or 350 to find number of tons.

## Purpose of Inoculating Legumes

All legumes should be inoculated because the purpose in inoculating legume seeds is to utilize the natural partnership between nitrogen-gathering bacteria and growing legumes, which enables the plants to feed on the nitrogen in the air.



## GESTATION TABLE

## Average Gestation Period

	Weeks	Days	
Rabbit	7	30	
Oat	7	50	Extremes (days)
Dog	8½	60	
Sow	16	114	109 to 120
Ewe	22	150	146 to 157
Cow	40½	283	240 to 311
Mare	48½	340	307 to 412

## DATE ANIMAL DUE TO GIVE BIRTH

Date of Service	Mare	Cow	Ewe	Sow
Jan. 1	Dec. 7	Oct. 11	May 6	Apr. 25
Jan. 11	Dec. 17	Oct. 21	May 16	May 5
Jan. 21	Dec. 27	Oct. 31	May 26	May 15
Jan. 31	Jan. 6	Nov. 10	May 31	May 25
Feb. 10	Jan. 16	Nov. 20	June 10	June 4
Feb. 20	Jan. 26	Nov. 30	June 20	June 14
Mar. 2	Feb. 5	Dec. 10	June 30	June 24
Mar. 12	Feb. 15	Dec. 20	July 10	July 4
Mar. 22	Feb. 25	Dec. 30	July 20	July 14
Apr. 1	Mar. 7	Jan. 9	July 30	July 24
Apr. 11	Mar. 17	Jan. 19	Aug. 9	Aug. 3
Apr. 21	Mar. 27	Jan. 29	Aug. 19	Aug. 13
May 1	Apr. 6	Feb. 8	Aug. 29	Aug. 23
May 11	Apr. 16	Feb. 18	Sept. 8	Sept. 2
May 21	Apr. 26	Feb. 28	Sept. 18	Sept. 12
May 31	May 6	Mar. 10	Sept. 28	Sept. 22
June 10	May 16	Mar. 20	Oct. 8	Oct. 2
June 20	May 26	Mar. 30	Oct. 18	Oct. 12
June 30	June 5	Apr. 9	Oct. 28	Oct. 22
July 10	June 15	Apr. 19	Nov. 7	Nov. 1
July 20	June 25	Apr. 29	Nov. 17	Nov. 11
July 30	July 5	May 9	Nov. 27	Nov. 21
Aug. 9	July 15	May 19	Dec. 7	Dec. 1
Aug. 19	July 25	May 29	Dec. 17	Dec. 11
Aug. 29	Aug. 4	June 8	Dec. 27	Dec. 21
Sept. 8	Aug. 14	June 18	Jan. 6	Dec. 31
Sept. 18	Aug. 24	June 28	Jan. 16	Jan. 10
Sept. 28	Sept. 3	July 8	Jan. 26	Jan. 20
Oct. 8	Sept. 13	July 18	Feb. 5	Jan. 30
Oct. 18	Sept. 23	July 28	Feb. 15	Feb. 9
Oct. 28	Oct. 3	Aug. 7	Feb. 25	Feb. 19
Nov. 7	Oct. 13	Aug. 17	Mar. 7	Mar. 1
Nov. 17	Oct. 23	Aug. 27	Mar. 17	Mar. 11
Nov. 27	Nov. 2	Sept. 6	Mar. 27	Mar. 21
Dec. 7	Nov. 12	Sept. 16	Apr. 6	Mar. 31
Dec. 17	Nov. 22	Sept. 26	Apr. 16	Apr. 10
Dec. 27	Dec. 2	Oct. 6	Apr. 26	Apr. 20

## Duration and Frequency of Heat in Farm Animals in Regular Condition

	In heat for	If not impregnated heat will recur in
Mares	5 to 7 days*	3 to 6 weeks
Cows	2 to 3 days*	3 to 4 weeks
Ewes	2 to 3 days	17 to 28 days
Sows	2 to 4 days	21 days

\* Subject to Variation.

## SEPTIC TANKS

The day of the cess pool is past, and in its place there is a tight chamber known as a septic tank.

Disposal of the effluent from the septic tank may be through drainage tile or into what is known as a dry well. In any case, care should be taken that the tile from the septic tank, if of the open joint variety, are not placed within 50 feet of a well.

It is a mistaken idea to think that the material that comes from a septic tank is pure water.

## LIVESTOCK RECORD ASSOCIATIONS

### Beef Cattle

- American Aberdeen-Angus Breeders Association,  
W. H. Tomhave, Secretary, 817 Exchange Ave., Chicago, Illinois.  
American Hereford Cattle Breeders Association,  
R. J. Kinzer, Secretary, 1012 Baltimore Ave., Kansas City, Missouri.  
American Shorthorns Breeders Association,  
P. K. Groves, Secretary, 13 Dexter Park Ave., Chicago, Illinois.  
Red Polled Cattle Club of America,  
H. A. Martin, Secretary, Richland Center, Wisconsin.

### Dairy Cattle

- The Holstein-Friesian Association of America,  
Houghton Seaverns, Secretary, Brattleboro, Vermont.  
American Jerseys Cattle Club,  
L. W. Morley, Secretary, 324 West 32nd Street, New York, N. Y.  
American Guernsey Cattle Club,  
Karl B. Musser, Secretary, Peterboro, New Hampshire.

### Swine

- National Duroc Record Association,  
G. G. Luthy, Secretary, Peoria, Illinois.  
American Duroc Jersey Association,  
R. J. Evans, Secretary, 817 Exchange Ave., Chicago, Illinois.  
American Poland China Record Association,  
G. W. Davies, Secretary, Union Stock Yards, Chicago, Illinois.  
Standard Poland China Record Association,  
F. L. Garrett, Secretary, Maryville, Missouri.  
National Spotted Poland China Record Association,  
F. L. Obenchain, Secretary, Wulsin Bldg., Indianapolis, Indiana.  
American Spotted Poland China Record Association,  
Van G. Sutliff, Secretary, Moberly, Missouri.  
The Hampshire Swine Record Association,  
E. M. Harsch, Secretary, 409 Wisconsin Ave., Peoria, Illinois.

### Sheep

- American Hampshire Sheep Association,  
C. A. Tyler, Secretary, 72 Woodlawn Ave., Detroit, Michigan.  
American Shropshire Registry Association,  
Julia M. Wade, Secretary, Lafayette, Indiana.  
American Southdown Breeders Association,  
W. L. Henning, Secretary, State College, Pennsylvania.

### Horses and Mules

- American Ass'n of Importers and Breeders of Belgian Draft Horses,  
J. D. Conner, Jr., Secretary, Wabash, Indiana.  
American Clydesdale Association,  
M. Coridan, Secretary, Union Stock Yards, Chicago, Illinois.  
Percheron Society of America,  
Ellis McFarland, Secretary, Union Stock Yards, Chicago, Illinois.  
American Saddle Horse Breeders Association,  
R. H. Lillard, Secretary, 405 Urban Bldg., Louisville, Kentucky.  
American Trotting Register Association,  
C. E. Koone, Secretary, Goshen, New York.  
Standard Jack and Jennet Registry of America,  
W. E. Morton, Secretary, Scarritt Bldg., Kansas City, Missouri.

### SWINE SANITATION PAYS

- better pigs
- more pigs raised from fewer sows
- fewer runts
- more pork for less feed
- faster gains and earlier markets



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PHYSICIANS AND SURGEONS

Dr. Herbert L. Alkire, Topeka.....

..... 32-48-60

VETERINARIANS

Dr. J. T. Leasure, Lawrence..... 28-44-61

Dr. E. G. L. Harbour, Lawrence

..... 36-50-63

# FARM MANAGEMENT SERVICE PAYS DIVIDENDS

1. Provide good drainage.
2. Arrange fields with care.
3. Use rotation of crops.
4. Grow higher profit crops.
5. Make much use of legumes.
6. Make careful use of manure.
7. Use limestone where needed.
8. Prepare seed beds carefully.
9. Cultivate crops with care.
10. Follow weed control practices.
11. Use high yielding seeds.
12. Test seeds for germination.
13. Control crop diseases.
14. Use phosphate where profitable.
15. Store crops carefully.
16. Raise stock that fits the farm.
17. Keep good quality livestock.
18. Grow young stock on clean land.
19. Control livestock diseases.
20. Feed balanced rations.
21. Use home grown feeds.
22. Produce according to market.
23. Avoid expensive improvements.
24. Take good care of improvements.
25. Fit machinery to needs of farm.
26. Keep machines in good condition.
27. Feed horses according to work.
28. Adjust labor needs to farm.
29. Form habit of timeliness.
30. Develop a large enough business.



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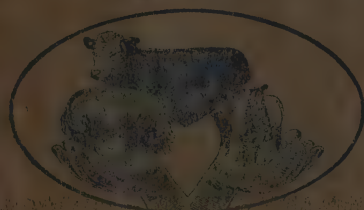
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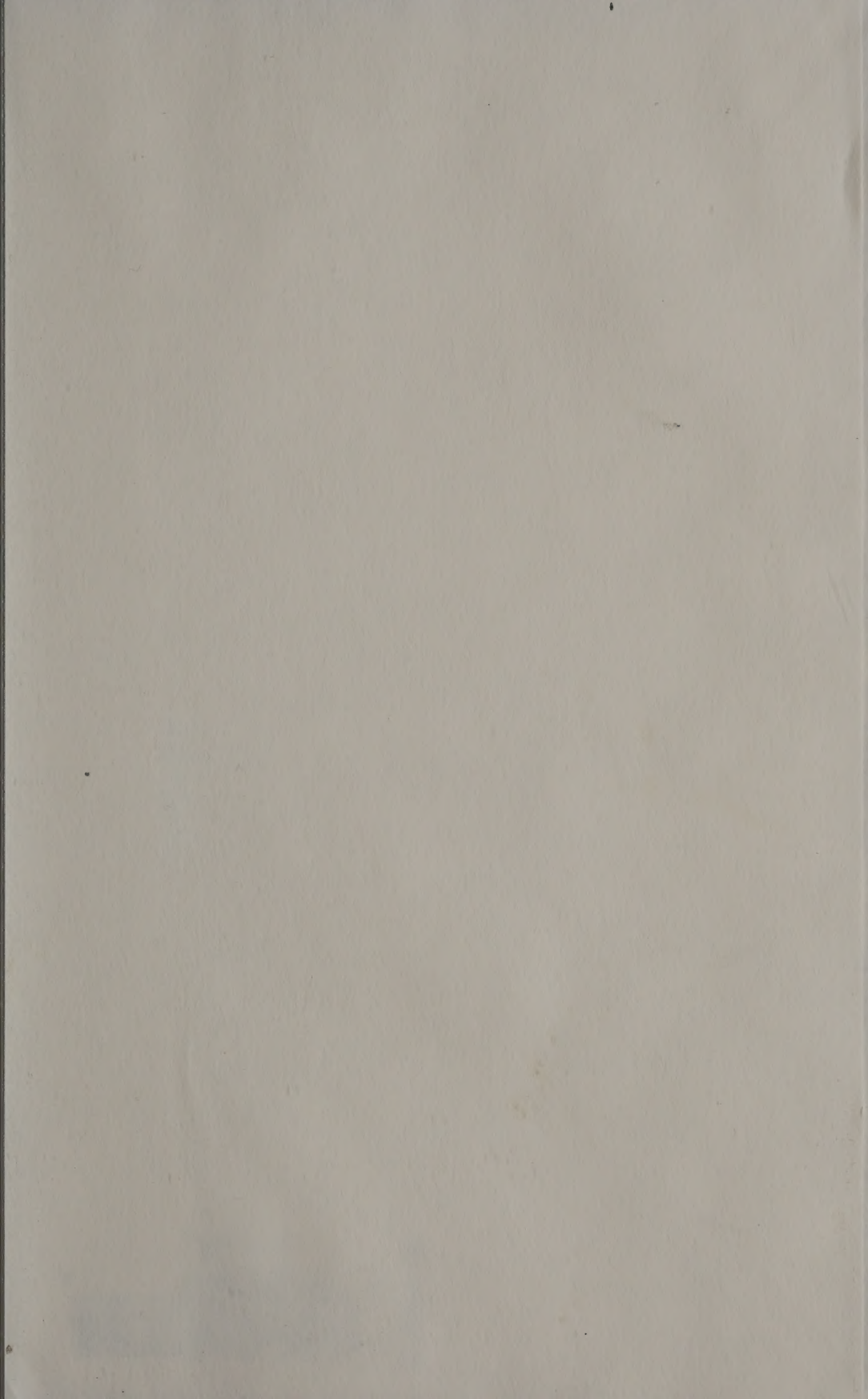
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